

## *Appendix C3*

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### *Equipment List*



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                      | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|-------------------|------------|-----------|----------|----------|----------|-------|---------|
| <b>Area: C10 - KERR PRIMARY CRUSHING [SUSTAINING]</b> |   |                   |            |           |          |          |          |       |         |
| C10-ACU-001   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL CONTROL RO   | 1200 CFM          | 0.2        |           |          |          |          |       |         |
| C10-ACU-002   | BUILDING SERVICES AIR COOLED CONDENSING UNIT CONTROL ROOM       | 3 TONS            | 3.7        |           |          |          |          |       |         |
| C10-ACU-003   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL ELECTRICAL   | 1200 CFM          | 0.2        |           |          |          |          |       |         |
| C10-ACU-004   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - ELECTRICAL RO    | 3 TONS            | 3.7        |           |          |          |          |       |         |
| C10-AIC-111   | KERR PRIMARY CRUSHING AIR COMPRESSOR                            | 365 Nm³/h 860kPag | 37.0       |           |          |          |          |       | PFD     |
| C10-AID-131   | KERR PRIMARY CRUSHING AIR DRYER                                 | 365 Nm³/h 860kPag |            |           |          |          |          |       | PFD     |
| C10-AIR-141   | KERR PRIMARY CRUSHING AIR RECEIVER                              | 4 m³              |            |           |          |          |          |       | PFD     |
| C10-CNV-021   | KERR PIT STOCKPILE FEED CONVEYOR No.1                           | 1829 W x 40000 L  | 80.0       |           |          |          |          |       | PFD     |
| C10-CNV-022   | KERR PIT STOCKPILE FEED CONVEYOR No.2                           | 1829 W x 40000 L  | 80.0       |           |          |          |          |       | PFD     |
| C10-CNV-023   | KERR PIT STOCKPILE FEED CONVEYOR No.3                           | 2134 W x 180000 L | 540.0      |           |          |          |          |       | PFD     |
| C10-CNV-082   | KERR PRIMARY CRUSHER DUST COLLECTOR SCREW CONVEYOR              |                   | 3.7        |           |          |          |          |       | PFD     |
| C10-COL-081   | KERR PRIMARY CRUSHER DUST COLLECTOR WITH EXHAUST FAN            |                   | 56.0       |           |          |          |          |       | PFD     |
| C10-COO-075   | KERR PRIMARY CRUSHER LUBRICATION COOLER No.1                    |                   | 15.0       |           |          |          |          |       | PFD     |
| C10-COO-076   | KERR PRIMARY CRUSHER LUBRICATION COOLER No.2                    |                   | 15.0       |           |          |          |          |       | PFD     |
| C10-CRN-041   | KERR PIT PRIMARY CRUSHING CRANE                                 | 75/20t            | 110.0      |           |          |          |          |       | PFD     |
| C10-CRU-001   | KERR PIT PRIMARY CRUSHER No.1                                   | 1524 x 2261       | 600.0      |           |          |          |          |       | PFD     |
| C10-CRU-002   | KERR PIT PRIMARY CRUSHER No.2                                   | 1524 x 2261       | 600.0      |           |          |          |          |       | PFD     |
| C10-DUC-001   | BUILDING SERVICES DUST DUCTING PRIMARY CRUSHING                 | 12,500 CFM        |            |           |          |          |          |       |         |
| C10-EQP-071   | KERR PRIMARY CRUSHER LUB/HYDROSET No.1                          |                   | 28.0       |           |          |          |          |       | PFD     |
| C10-EQP-072   | KERR PRIMARY CRUSHER LUB/HYDROSET No.2                          |                   | 28.0       |           |          |          |          |       | PFD     |
| C10-FAN-001   | BUILDING SERVICES WALL SUPPLY FAN / FILTER - LUBE ROOM PRIMAR   | 1,200CFM          | 3.7        |           |          |          |          |       |         |
| C10-FAN-002   | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - C | 400 CFM           | 3.7        |           |          |          |          |       |         |
| C10-FAN-003   | BUILDING SERVICES WALL SUPPLY FAN / FILTER - COMPRESSOR ROO     | 5,000CFM          | 5.5        |           |          |          |          |       |         |
| C10-FAN-004   | BUILDING SERVICES SUPPLY FAN / FILTER - (PRESSURIZATION) ELECT  | 400CFM            | 5.5        |           |          |          |          |       |         |
| C10-FDR-011   | KERR PIT PRIMARY CRUSHER APRON FEEDER No.1                      | 1829 W x 9200 L   | 150.0      |           |          |          |          |       | PFD     |
| C10-FDR-012   | KERR PIT PRIMARY CRUSHER APRON FEEDER No.2                      | 1829 W x 92000 L  | 150.0      |           |          |          |          |       | PFD     |
| C10-FIL-121   | KERR PRIMARY CRUSHING AIR FILTER                                |                   |            |           |          |          |          |       | PFD     |
| C10-HOI-042   | KERR PRIMARY CRUSHER DRIVE HOIST No.1                           | 10t               | 10.0       |           |          |          |          |       | PFD     |
| C10-HOI-043   | KERR PRIMARY CRUSHER DRIVE HOIST No.2                           | 10t               | 10.0       |           |          |          |          |       | PFD     |
| C10-HOI-044   | KERR PRIMARY CRUSHER APRON FEEDER HOIST No.1                    | 5t                | 5.0        |           |          |          |          |       | PFD     |
| C10-HOI-045   | KERR PRIMARY CRUSHER APRON FEEDER HOIST No.2                    | 5t                | 5.0        |           |          |          |          |       | PFD     |
| C10-HTR-001   | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT - PRIMARY CRUSHE     | 12,500CFM         | 7.5        |           |          |          |          |       |         |
| C10-HTR-002   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7       |           |          |          |          |       |         |
| C10-HTR-003   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7       |           |          |          |          |       |         |
| C10-HTR-004   | BUILDING SERVICES ELECTRIC UNIT HEATER - LUBE ROOM PRIMARY C    | 10KW              | 10.4       |           |          |          |          |       |         |
| C10-HTR-005   | BUILDING SERVICES ELECTRIC UNIT HEATER - COMPRESSOR ROOM P      | 10KW              | 10.4       |           |          |          |          |       |         |
| C10-HTR-006   | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL ROOM PRI    | 10KW              | 10.4       |           |          |          |          |       |         |
| C10-HTR-007   | BUILDING SERVICES ELECTRIC UNIT HEATER - CONTROL ROOM PRIMA     | 10KW              | 10.4       |           |          |          |          |       |         |
| C10-HTR-008   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-009   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-010   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-011   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-012   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-013   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-014   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-015   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-016   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-017   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-018   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-019   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-020   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-021   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0        |           |          |          |          |       |         |
| C10-HTR-022   | BUILDING SERVICES ELECTRIC UNIT HEATER - FIRE VALVE ROOM PRIM   | 5kW               | 5.3        |           |          |          |          |       |         |
| C10-LUB-073   | KERR PRIMARY CRUSHER SPIDER LUBE UNIT No.1                      |                   | 1.5        |           |          |          |          |       | PFD     |
| C10-LUB-074   | KERR PRIMARY CRUSHER SPIDER LUBE UNIT No.2                      |                   | 1.5        |           |          |          |          |       | PFD     |
| C10-MGT-029   | KERR PIT STOCKPILE FEED CONVEYOR SELF CLEANER MAGNET No.1       |                   | 10.0       |           |          |          |          |       | PFD     |
| C10-MGT-030   | KERR PIT STOCKPILE FEED CONVEYOR SELF CLEANER MAGNET No.2       |                   | 10.0       |           |          |          |          |       | PFD     |
| C10-PPK-055   | KERR ROCK BREAKER HYDRAULIC POWER PACK No.1                     |                   | 56.0       |           |          |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW)    | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|-------------------|---------------|-----------|----------|----------|----------|-------|---------|
| C10-PPK-056   | KERR ROCK BREAKER HYDRAULIC POWER PACK No.2                     |                   | 56.0          |           |          |          |          |       | PFD     |
| C10-RKB-051   | KERR PRIMARY CRUSHING ROCK BREAKER No.1                         |                   |               |           |          |          |          |       | PFD     |
| C10-RKB-052   | KERR PRIMARY CRUSHING ROCK BREAKER No.2                         |                   |               |           |          |          |          |       | PFD     |
| C10-SCB-031   | KERR PIT STOCKPILE FEED CONVEYOR BELT SCALE No.1                |                   | 1.0           |           |          |          |          |       | PFD     |
| C10-SCB-032   | KERR PIT STOCKPILE FEED CONVEYOR BELT SCALE No.2                |                   | 1.0           |           |          |          |          |       | PFD     |
| C10-SYS-061   | KERR PRIMARY CRUSHING DUST SUPPRESSION SYSTEM                   |                   | 2.0           |           |          |          |          |       | PFD     |
| C10-SYS-071   | MITCHELL-TREATY TUNNEL DRIVE STATION No.2 DUST SUPPRESSION      |                   |               |           |          |          |          |       | PFD     |
| C10-SYS-072   | MITCHELL-TREATY TUNNEL DRIVE STATION No.3 DUST SUPPRESSION      |                   |               |           |          |          |          |       | PFD     |
| C10-SYS-073   | MITCHELL-TREATY TUNNEL DRIVE STATION No.4 DUST SUPPRESSION      |                   |               |           |          |          |          |       | PFD     |
| C10-SYS-074   | MITCHELL-TREATY TUNNEL DRIVE STATION No.5 DUST SUPPRESSION      |                   |               |           |          |          |          |       | PFD     |
| C10-VLV-083   | KERR PRIMARY CRUSHER DUST COLLECTOR ROTARY VALVE                |                   | 0.5           |           |          |          |          |       | PFD     |
| <i>KERR PRIMARY CRUSHING [SUSTAINING] TOTAL kW:</i>         |   |                   | <b>2804.2</b> |           |          |          |          |       |         |
| <b>Area: C12 - SULPHURETS PRIMARY CRUSHING [SUSTAINING]</b> |   |                   |               |           |          |          |          |       |         |
| C12-ACU-001   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL CONTROL RO   | 1200 CFM          | 0.4           |           |          |          |          |       |         |
| C12-ACU-002   | BUILDING SERVICES AIR COOLED CONDENSING UNIT CONTROL ROOM       | 3 TONS            | 3.7           |           |          |          |          |       |         |
| C12-ACU-003   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL ELECTRICAL   | 1200 CFM          | 0.4           |           |          |          |          |       |         |
| C12-ACU-004   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - ELECTRICAL RO    | 3 TONS            | 3.7           |           |          |          |          |       |         |
| C12-AIC-111   | SULPHURETS PRIMARY CRUSHING AIR COMPRESSOR                      | 365 Nm³/h 860kPag | 37.0          |           |          |          |          |       | PFD     |
| C12-AID-131   | SULPHURETS PRIMARY CRUSHING AIR DRYER                           | 365 Nm³/h 860kPag |               |           |          |          |          |       | PFD     |
| C12-AIR-141   | SULPHURETS PRIMARY CRUSHING AIR RECEIVER                        | 4 m³              |               |           |          |          |          |       | PFD     |
| C12-CNV-021   | SULPHURETS CRUSHER DISCHARGE CONVEYOR No.1                      | 1829 W x 280000 L | 80.0          |           |          |          |          |       | PFD     |
| C12-CNV-022   | SULPHURETS CRUSHER DISCHARGE CONVEYOR No.2                      | 1524 W x 250000 L | 1120.0        |           |          |          |          |       | PFD     |
| C12-CNV-082   | SULPHURETS PRIMARY CRUSHER DUST COLLECTOR SCREW CONVEY          |                   | 3.7           |           |          |          |          |       | PFD     |
| C12-COL-081   | SULPHURETS PRIMARY CRUSHER DUST COLLECTOR WITH EXHAUST F        |                   | 56.0          |           |          |          |          |       | PFD     |
| C12-COO-073   | SULPHURETS PRIMARY CRUSHER LUBRICATION COOLER                   |                   | 15.0          |           |          |          |          |       | PFD     |
| C12-CRN-041   | SULPHURETS PIT PRIMARY CRUSHING CRANE                           | 75/20t            | 110.0         |           |          |          |          |       | PFD     |
| C12-CRU-001   | SULPHURETS PIT PRIMARY CRUSHER                                  | 1524 x 2261       | 600.0         |           |          |          |          |       | PFD     |
| C12-DUC-001   | BUILDING SERVICES DUST DUCTING PRIMARY CRUSHING                 | 12,500 CFM        |               |           |          |          |          |       |         |
| C12-EQP-071   | SULPHURETS PRIMARY CRUSHER LUB/HYDROSET                         |                   | 28.0          |           |          |          |          |       | PFD     |
| C12-FAN-001   | BUILDING SERVICES WALL SUPPLY FAN / FILTER - LUBE ROOM PRIMAR   | 1,200CFM          | 3.7           |           |          |          |          |       |         |
| C12-FAN-002   | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - C | 400 CFM           | 3.7           |           |          |          |          |       |         |
| C12-FAN-003   | BUILDING SERVICES WALL SUPPLY FAN / FILTER - COMPRESSOR ROO     | 5,000CFM          | 5.5           |           |          |          |          |       |         |
| C12-FAN-004   | BUILDING SERVICES SUPPLY FAN / FILTER - (PRESSURIZATION) ELECT  | 400CFM            | 5.5           |           |          |          |          |       |         |
| C12-FDR-011   | SULPHURETS PIT PRIMARY CRUSHER APRON FEEDER                     | 1829 W x 9200 L   | 150.0         |           |          |          |          |       | PFD     |
| C12-FIL-121   | SULPHURETS PRIMARY CRUSHING AIR FILTER                          |                   |               |           |          |          |          |       | PFD     |
| C12-HOI-042   | SULPHURETS PRIMARY CRUSHER DRIVE HOIST                          | 10t               | 10.0          |           |          |          |          |       | PFD     |
| C12-HOI-043   | SULPHURETS PRIMARY CRUSHER APRON FEEDER HOIST                   | 5t                | 5.0           |           |          |          |          |       | PFD     |
| C12-HTR-001   | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT - PRIMARY CRUSHE     | 12,500CFM         | 7.5           |           |          |          |          |       |         |
| C12-HTR-002   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7          |           |          |          |          |       |         |
| C12-HTR-003   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7          |           |          |          |          |       |         |
| C12-HTR-004   | BUILDING SERVICES ELECTRIC UNIT HEATER - LUBE ROOM PRIMARY C    | 10KW              | 10.4          |           |          |          |          |       |         |
| C12-HTR-005   | BUILDING SERVICES ELECTRIC UNIT HEATER - COMPRESSOR ROOM P      | 10KW              | 10.4          |           |          |          |          |       |         |
| C12-HTR-006   | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL ROOM PRI    | 10KW              | 10.4          |           |          |          |          |       |         |
| C12-HTR-007   | BUILDING SERVICES ELECTRIC UNIT HEATER - CONTROL ROOM PRIMA     | 10KW              | 10.4          |           |          |          |          |       |         |
| C12-HTR-008   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-009   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-010   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-011   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-012   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-013   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-014   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-015   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-016   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-017   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-018   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-019   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-020   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |
| C12-HTR-021   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR      | 2KW               | 2.0           |           |          |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                   | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW) | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|--|---|-------------------|------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| C12-HTR-022  | BUILDING SERVICES ELECTRIC UNIT HEATER - FIRE VALVE ROOM PRIM   | 5kW               | 5.3        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C12-LUB-072  | SULPHURETS PRIMARY CRUSHER SPIDER LUBE UNIT                     |                   | 1.5        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-MGT-029  | SULPHURETS CRUSHER DISCHARGE CONVEYOR No.1 SELF CLEANER         |                   | 10.0       | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-PPK-055  | SULPHURETS ROCK BREAKER HYDRAULIC POWER PACK                    |                   | 56.0       | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-RKB-051  | SULPHURETS PRIMARY CRUSHING ROCK BREAKER                        |                   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-SCB-031  | SULPHURETS CRUSHER DISCHARGE CONVEYOR No.1 BELT SCALE           |                   | 1.0        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-SYS-061  | SULPHURETS PRIMARY CRUSHING DUST SUPPRESSION SYSTEM             |                   | 2.0        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C12-VLV-083  | SULPHURETS PRIMARY CRUSHER DUST COLLECTOR ROTARY VALVE          |                   | 0.5        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| SULPHURETS PRIMARY CRUSHING [SUSTAINING] TOTAL kW: |   |                   | 2428.1     |                                     |                          |          |          |       |         |
| <b>Area: C14 - MITCHELL PRIMARY CRUSHING</b>       |   |                   |            |                                     |                          |          |          |       |         |
| C14-ACU-001  | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL CONTROL RO   | 1200 CFM          | 0.4        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-002  | BUILDING SERVICES AIR COOLED CONDENSING UNIT CONTROL ROOM       | 3 TONS            | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-003  | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL ELECTRICAL   | 1200 CFM          | 0.4        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-004  | BUILDING SERVICES AIR COOLED CONDENSING UNIT - ELECTRICAL RO    | 3 TONS            | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-101  | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL CONTROL RO   | 1200 CFM          | 0.4        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-102  | BUILDING SERVICES AIR COOLED CONDENSING UNIT CONTROL ROOM       | 3 TONS            | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-103  | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL ELECTRICAL   | 1200 CFM          | 0.4        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-ACU-104  | BUILDING SERVICES AIR COOLED CONDENSING UNIT - ELECTRICAL RO    | 3 TONS            | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-AIC-111  | MITCHELL PRIMARY CRUSHING AIR COMPRESSOR No.1                   |                   | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-AIC-112  | MITCHELL PRIMARY CRUSHING AIR COMPRESSOR No.2                   |                   | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-AID-131  | MITCHELL PRIMARY CRUSHING AIR DRYER                             | 365 Nm³/h 860kPag |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C14-AIR-141  | MITCHELL PRIMARY CRUSHING AIR RECEIVER                          | 4 m³              |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CNV-006  | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.1                | 1829 W x 37000 L  | 93.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CNV-007  | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.2                | 1829 W x 37000 L  | 80.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CNV-010  | MITCHELL PIT COARSE ORE STOCKPILE FEED CONVEYOR                 | 2134 W x 495000 L | 2237.1     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CNV-082  | MITCHELL PRIMARY CRUSHING DUST COLLECTOR SCREW CONVEYOR         |                   | 5.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-COL-081  | MITCHELL PRIMARY CRUSHING DUST COLLECTOR WITH EXHAUST FAN       |                   | 93.1       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-COO-075  | MITCHELL PRIMARY CRUSHING LUBRICATION COOLER No.1               |                   | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-COO-076  | MITCHELL PRIMARY CRUSHING LUBRICATION COOLER No.2               |                   | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CRN-041  | MITCHELL PRIMARY CRUSHING CRANE                                 | 75/20t            | 110.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CRU-002  | MITCHELL PIT PRIMARY CRUSHER No.1                               | 1524 x 2261       | 600.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-CRU-003  | MITCHELL PIT PRIMARY CRUSHER No.2                               | 1524 x 2261       | 600.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-DUC-001  | BUILDING SERVICES DUST DUCTING PRIMARY CRUSHING                 | 45,000 CFM        |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C14-EQP-071  | MITCHELL PRIMARY CRUSHING LUB/HYDROSET No.1                     |                   | 28.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-EQP-072  | MITCHELL PRIMARY CRUSHING LUB/HYDROSET No.2                     |                   | 28.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-FAN-001  | BUILDING SERVICES WALL SUPPLY FAN / FILTER - LUBE ROOM PRIMAR   | 1,200CFM          | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-002  | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - C | 400 CFM           | 2.2        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-003  | BUILDING SERVICES WALL SUPPLY FAN / FILTER - COMPRESSOR ROO     | 5,000CFM          | 5.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-004  | BUILDING SERVICES SUPPLY FAN / FILTER - (PRESSURIZATION) ELECT  | 400 CFM           | 2.2        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-101  | BUILDING SERVICES WALL SUPPLY FAN / FILTER - LUBE ROOM PRIMAR   | 1,200 CFM         | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-102  | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - C | 400 CFM           | 2.2        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-103  | BUILDING SERVICES WALL SUPPLY FAN / FILTER - COMPRESSOR ROO     | 5,000CFM          | 5.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FAN-104  | BUILDING SERVICES SUPPLY FAN / FILTER - (PRESSURIZATION) ELECT  | 400 CFM           | 2.2        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-FDR-004  | PRIMARY CRUSHER No.1 APRON FEEDER                               | 2134 W x 10000 L  | 185.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-FDR-005  | PRIMARY CRUSHER No.2 APRON FEEDER                               | 2134 W x 10000 L  | 185.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-FIL-121  | MITCHELL PRIMARY CRUSHING AIR FILTER                            |                   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C14-HOI-043  | MITCHELL PRIMARY CRUSHING DRIVE HOIST No.1                      | 10t               | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-HOI-044  | MITCHELL PRIMARY CRUSHING DRIVE HOIST No.2                      | 10t               | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-HOI-045  | MITCHELL PRIMARY CRUSHING APRON FEEDER HOIST No.1               | 5t                | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-HOI-046  | MITCHELL PRIMARY CRUSHING APRON FEEDER HOIST No.2               | 5t                | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C14-HTR-001  | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT - PRIMARY CRUSHE     | 25,000CFM         | 15.5       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-002  | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-003  | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI   | 13kW 400 cfm      | 16.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-004  | BUILDING SERVICES ELECTRIC UNIT HEATER - LUBE ROOM PRIMARY C    | 10KW              | 10.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-005  | BUILDING SERVICES ELECTRIC UNIT HEATER - COMPRESSOR ROOM P      | 10KW              | 10.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-006  | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL ROOM PRI    | 10KW              | 10.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-007  | BUILDING SERVICES ELECTRIC UNIT HEATER - CONTROL ROOM PRIMA     | 10KW              | 10.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C14-HTR-008  | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI    | 2KW               | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW)    | OPERATING     | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|-------------------|---------------|---------------|----------|----------|----------|-------|---------|
| C14-HTR-009   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-010   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-011   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-012   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-013   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-014   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-015   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-016   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-017   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-018   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-019   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-020   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-021   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-022   | BUILDING SERVICES ELECTRIC UNIT HEATER - FIRE VALVE ROOM PRIM | 5kW               | 5.3           | ✓             |          |          |          |       |         |
| C14-HTR-101   | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT - PRIMARY CRUSHE   | 25,000CFM         | 15.5          | ✓             |          |          |          |       |         |
| C14-HTR-102   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI | 13kW 400 cfm      | 16.7          | ✓             |          |          |          |       |         |
| C14-HTR-103   | BUILDING SERVICES ELECTRIC DUCT HEATER (PRESSURIZATION) - PRI | 13kW 400 cfm      | 16.7          | ✓             |          |          |          |       |         |
| C14-HTR-104   | BUILDING SERVICES ELECTRIC UNIT HEATER - LUBE ROOM PRIMARY C  | 10KW              | 10.4          | ✓             |          |          |          |       |         |
| C14-HTR-105   | BUILDING SERVICES ELECTRIC UNIT HEATER - COMPRESSOR ROOM P    | 10KW              | 10.4          | ✓             |          |          |          |       |         |
| C14-HTR-106   | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL ROOM PRI  | 10KW              | 10.4          | ✓             |          |          |          |       |         |
| C14-HTR-107   | BUILDING SERVICES ELECTRIC UNIT HEATER - CONTROL ROOM PRIMA   | 10KW              | 10.4          | ✓             |          |          |          |       |         |
| C14-HTR-108   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-109   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-110   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-111   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-112   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-113   | BUILDING SERVICES ELECTRIC RADIANT HEATER - FEEDER FLOOR PRI  | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-114   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-115   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-116   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-117   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-118   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-119   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-120   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-121   | BUILDING SERVICES ELECTRIC RADIANT HEATER - CONVEYOR FLOOR    | 2KW               | 2.0           | ✓             |          |          |          |       |         |
| C14-HTR-122   | BUILDING SERVICES ELECTRIC UNIT HEATER - FIRE VALVE ROOM PRIM | 5kW               | 5.3           | ✓             |          |          |          |       |         |
| C14-LUB-073   | MITCHELL PRIMARY CRUSHING SPIDER LUBE UNIT No.1               |                   | 1.5           | ✓             |          |          |          |       | PFD     |
| C14-LUB-074   | MITCHELL PRIMARY CRUSHING SPIDER LUBE UNIT No.2               |                   | 1.5           | ✓             |          |          |          |       | PFD     |
| C14-MGT-027   | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.1 SELF CLE     |                   | 10.0          | ✓             |          |          |          |       | PFD     |
| C14-MGT-028   | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.2 SELF CLE     |                   | 10.0          | ✓             |          |          |          |       | PFD     |
| C14-PPK-055   | MITCHELL ROCK BREAKER HYDRAULIC POWER PACK No.1               |                   | 56.0          | ✓             |          |          |          |       | PFD     |
| C14-PPK-056   | MITCHELL ROCK BREAKER HYDRAULIC POWER PACK No.2               |                   | 56.0          | ✓             |          |          |          |       | PFD     |
| C14-PSO-013   | CRUSHING AREA WATER PUMP                                      | 100 x 75          | 30.0          | ✓             |          |          |          |       | PFD     |
| C14-PSU-012   | PRIMARY CRUSHER SUMP PUMP                                     | 150               | 24.0          | ✓             |          |          |          |       | PFD     |
| C14-RKB-051   | MITCHELL PRIMARY CRUSHING ROCK BREAKER No.1                   |                   | 56.0          | ✓             |          |          |          |       | PFD     |
| C14-RKB-052   | MITCHELL PRIMARY CRUSHING ROCK BREAKER No.2                   |                   | 56.0          | ✓             |          |          |          |       | PFD     |
| C14-SCB-029   | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.1 BELT SCA     |                   | 1.0           | ✓             |          |          |          |       | PFD     |
| C14-SCB-030   | MITCHELL PRIMARY CRUSHER DISCHARGE CONVEYOR No.2 BELT SCA     |                   | 1.0           | ✓             |          |          |          |       | PFD     |
| C14-SYS-061   | MITCHELL PRIMARY CRUSHING DUST SUPPRESSION SYSTEM             |                   | 2.0           | ✓             |          |          |          |       | PFD     |
| C14-VLV-083   | MITCHELL PRIMARY CRUSHING DUST COLLECTOR ROTARY VALVE         |                   | 0.5           | ✓             |          |          |          |       | PFD     |
| MITCHELL PRIMARY CRUSHING TOTAL kW:                       |   |                   | <b>4975.6</b> | <b>4975.6</b> |          |          |          |       |         |
| <b>Area: C20 - KERR COARSE ORE STOCKPILE [SUSTAINING]</b> |   |                   |               |               |          |          |          |       |         |
| C20-CNV-011   | KERR PIT APRON FEEDER DISCHARGE CONVEYOR                      | 1829 W x 105000 L | 530.0         |               |          |          |          |       | PFD     |
| C20-CNV-032   | KERR COARSE ORE RECLAIM DUST COLLECTOR SCREW CONVEYOR         |                   | 3.7           |               |          |          |          |       | PFD     |
| C20-COL-031   | KERR COARSE ORE RECLAIM DUST COLLECTOR WITH EXHAUST FAN       | 14,000 CFM        | 56.0          |               |          |          |          |       | PFD     |
| C20-DUC-001   | BUILDING SERVICES DUST DUCTING COARSE ORE STOCKPILE           | 14,000 CFM        |               |               |          |          |          |       |         |
| C20-FAN-  | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN COARSE ORE S     | 14,000 CFM        | 55.0          |               |          |          |          |       |         |
| C20-FAN-002   | BUILDING SERVICES EXHAUST FAN - RECLAIM TUNNEL COARSE ORE S   | 4,000 CFM         | 3.7           |               |          |          |          |       |         |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE   | POWER (kW)   | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|------------------|--------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| C20-FAN-017   | BUILDING SERVICES AIR HANDLING UNIT - NO HEAT - RECLAIM COARS | 18,000CFM        | 14.9         | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-FDR-001   | KERR PIT COARSE ORE RECLAIM APRON FEEDER No.1                 | 1829 W x 7600 L  | 112.0        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C20-FDR-002   | KERR PIT COARSE ORE RECLAIM APRON FEEDER No.2                 | 1829 W x 7600 L  | 112.0        | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C20-HOI-042   | KERR COARSE ORE RECLAIM HOIST                                 | 2t               | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C20-HTR-001   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-002   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-003   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-004   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-005   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-006   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-007   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-008   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-009   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-010   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-011   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-012   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-013   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-014   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-015   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-016   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-HTR-018   | BUILDING SERVICES UNIT HEATER - FIRE VALVE ROOM COARSE ORE S  | 3kW              | 3.7          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C20-SCB-015   | KERR APRON FEEDER DISCHARGE CONVEYOR BELT SCALE               |                  | 1.0          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C20-VLV-033   | KERR COARSE ORE RECLAIM DUST COLLECTOR ROTARY VALVE           |                  | 0.7          | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| <b>KERR COARSE ORE STOCKPILE [SUSTAINING] TOTAL kW:</b> |   |                  | <b>926.7</b> |                                     |                          |          |          |       |         |
| <b>Area: C24 - MITCHELL COARSE ORE STOCKPILE</b>        |   |                  |              |                                     |                          |          |          |       |         |
| C24-AIC-017   | COARSE STOCKPILE AREA AIR COMPRESSOR                          |                  | 37.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-CNV-031   | COARSE ORE DISCHARGE CONVEYOR No.1                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-032   | COARSE ORE DISCHARGE CONVEYOR No.2                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-033   | COARSE ORE DISCHARGE CONVEYOR No.3                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-034   | COARSE ORE DISCHARGE CONVEYOR No.4                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-035   | COARSE ORE DISCHARGE CONVEYOR No.5                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-036   | COARSE ORE DISCHARGE CONVEYOR No.6                            | 1580 W x 25000 L | 14.9         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-CNV-052   | MITCHELL COARSE ORE RECLAIM DUST COLLECTOR SCREW CONVEY       |                  | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-COL-051   | MITCHELL COARSE ORE RECLAIM DUST COLLECTOR WITH EXHAUST F     |                  | 44.7         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-DUC-001   | BUILDING SERVICES DUST DUCTING COARSE ORE STOCKPILE           | 36,000 CFM       |              | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| C24-FAN-002   | BUILDING SERVICES EXHAUST FAN - RECLAIM TUNNEL COARSE ORE S   | 4,000 CFM        | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-FAN-010   | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN COARSE ORE S     | 36,000 CFM       | 90.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-FAN-017   | BUILDING SERVICES AIR HANDLING UNIT - NO HEAT - RECLAIM COARS | 32,000CFM        | 22.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-FDR-001   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.1                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-FDR-002   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.2                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-FDR-003   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.3                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-FDR-004   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.4                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-FDR-005   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.5                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-FDR-006   | MITCHELL COARSE ORE RECLAIM APRON FEEDER No.6                 | 1829 W x 8500 L  | 125.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-HOI-041   | MITCHELL COARSE ORE STOCKPILE HOIST No.1                      | 2t               | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-HOI-042   | MITCHELL COARSE ORE STOCKPILE HOIST No.2                      | 2t               | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-HTR-001   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-002   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-003   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-004   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-005   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-006   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-007   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-008   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-009   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-010   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-011   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-012   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW              | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE      | POWER (kW) | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|---------------------|------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| C24-HTR-013   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-014   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-015   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-016   | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-HTR-018   | BUILDING SERVICES UNIT HEATER - FIRE VALVE ROOM COARSE ORE S  | 3kW                 | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| C24-MGT-027   | COARSE ORE STOCKPILE DISCHARGE CONVEYOR SELF CLEANER MA       |                     | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| C24-VLV-053   | MITCHELL COARSE ORE RECLAIM DUST COLLECTOR ROTARY VALVE       |                     | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| MITCHELL COARSE ORE STOCKPILE TOTAL kW:                 |   |                     | 1091.3     | 1091.3                              |                          |          |          |       |         |
| <b>Area: C34 - MITCHELL ROCK STOCKPILE [SUSTAINING]</b> |   |                     |            |                                     |                          |          |          |       |         |
| C34-CNV-111   | MITCHELL PIT ROCK PILE CONVEYOR                               | 1829 W x 1200000 L  | -390.0     | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C34-CNV-112   | KERR ROCK CONVEYOR No.2                                       | 1829 W x 1660000 L  | 5040.0     | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C34-CNV-113   | KERR ROCK CONVEYOR No.3                                       | 1829 W x 700000 L   | 1270.0     | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| C34-CNV-121   | KERR ROCK STACKER CONVEYOR                                    | 1829 W x 30000 L    | 240.0      | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| MITCHELL ROCK STOCKPILE [SUSTAINING] TOTAL kW:          |   |                     | 6160.0     |                                     |                          |          |          |       |         |
| <b>Area: D24 - TUNNEL CONVEYANCE</b>                    |   |                     |            |                                     |                          |          |          |       |         |
| D24-AIC-001   | MITCHELL-TREATY TUNNEL DRIVE STATION No.2 AIR COMPRESSOR No   |                     | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-AIC-002   | MITCHELL-TREATY TUNNEL DRIVE STATION No.3 AIR COMPRESSOR No   |                     | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-AIC-003   | MITCHELL-TREATY TUNNEL AIR COMPRESSOR AIR COMPRESSOR No.3     |                     | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-AIC-004   | MITCHELL-TREATY TUNNEL DRIVE STATION No.5 AIR COMPRESSOR No   |                     | 37.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-AID-001   | MITCHELL-TREATY TUNNEL DRIVE STATION No.2 INSTRUMENT AIR DRY  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AID-002   | MITCHELL-TREATY TUNNEL DRIVE STATION No.3 INSTRUMENT AIR DRY  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AID-003   | MITCHELL-TREATY TUNNEL DRIVE STATION No.4 INSTRUMENT AIR DRY  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AID-004   | MITCHELL-TREATY TUNNEL DRIVE STATION No.5 INSTRUMENT AIR DRY  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AIR-001   | MITCHELL-TREATY TUNNEL DRIVE STATION No.2 INSTRUMENT AIR REC  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AIR-002   | MITCHELL-TREATY TUNNEL DRIVE STATION No.3 INSTRUMENT AIR REC  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AIR-003   | MITCHELL-TREATY TUNNEL DRIVE STATION No.4 INSTRUMENT AIR REC  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-AIR-004   | MITCHELL-TREATY TUNNEL DRIVE STATION No.5 INSTRUMENT AIR REC  |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-CNV-024   | MITCHELL-TREATY TUNNEL CONVEYOR                               | 1829 W x 23500000 L |            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-CNV-311   | SULPHURETS-MITCHELL TUNNEL CONVEYOR                           | 1829 W x 2960000 L  | -4575.0    | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| D24-CNV-312   | SULPHURETS-MITCHELL TUNNEL ORE TRANSFER CONVEYOR              | 1829 W x 400000 L   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| D24-CRN-211   | CONVEYING TUNNEL DRIVER STATION No.2 CRANE                    | 20t                 | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-CRN-212   | CONVEYING TUNNEL DRIVER STATION No.3 CRANE                    | 20t                 | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-CRN-213   | CONVEYING TUNNEL DRIVER STATION No.4 CRANE                    | 20t                 | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-CRN-214   | CONVEYING TUNNEL DRIVER STATION No.5 CRANE                    | 20t                 | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-FAN-001   | MINE SITE TRANSPORTATION TUNNEL VENTILATION                   |                     | 78.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-FAN-002   | MINE SITE CONVEYING TUNNEL VENTILATION                        |                     | 66.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-FAN-003   | PLANT SITE TRANSPORTATION TUNNEL VENTILATION                  |                     | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-FAN-004   | PLANT SITE CONVEYING TUNNEL VENTILATION                       |                     | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-FIL-001   | MITCHELL-TREATY TUNNEL DRIVE STATION No.2 INSTRUMENT AIR FILT |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-FIL-002   | MITCHELL-TREATY TUNNEL DRIVE STATION No.3 INSTRUMENT AIR FILT |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-FIL-003   | MITCHELL-TREATY TUNNEL DRIVE STATION No.4 INSTRUMENT AIR FILT |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-FIL-004   | MITCHELL-TREATY TUNNEL DRIVER STATION No.5 INSTRUMENT AIR FIL |                     |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| D24-HOI-221   | CONVEYING TUNNEL DRIVER STATION No.2 HOIST                    | 5t                  | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-HOI-222   | CONVEYING TUNNEL DRIVER STATION No.3 HOIST                    | 5t                  | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-HOI-223   | CONVEYING TUNNEL DRIVER STATION No.4 HOIST                    | 5t                  | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-HOI-224   | CONVEYING TUNNEL DRIVER STATION No.5 HOIST                    | 5t                  | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| D24-STN-061   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.1 2 UNITS    |                     | 2744.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-STN-062   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.2 3 UNITS    |                     | 5403.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-STN-063   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.3 3 UNITS    |                     | 5403.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-STN-064   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.4 3 UNITS    |                     | 5403.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-STN-065   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.5 3 UNITS    |                     | 5403.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| D24-STN-066   | MITCHELL-TREATY TUNNEL CONVEYOR DRIVE STATION No.6 3 UNITS    |                     | 5403.0     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| TUNNEL CONVEYANCE TOTAL kW:                             |   |                     | 25696.0    | 30271.0                             |                          |          |          |       |         |
| <b>Area: D30 - ROPE CONVEYANCE [Y13 - SUSTAINING]</b>   |   |                     |            |                                     |                          |          |          |       |         |
| D30-CNV-010   | KERR-SULPHURETS ROPE CONVEYOR                                 | 1829 W x 2482000 L  | -7000.0    | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| D30-CNV-011   | KERR CONVEYOR No.1 TO SULPHURETS PORTAL                       | 1829 W x 400000 L   | 2985.0     | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| D30-CNV-012   | KERR CONVEYOR No.2 TO SULPHURETS PORTAL                       | 1829 W x 250000 L   | 1870.0     | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                     | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|--|---|-------------------|------------|-----------|----------|----------|----------|-------|---------|
| ROPE CONVEYANCE [Y13 - SUSTAINING] TOTAL kW: -2145.0 |   |                   |            |           |          |          |          |       |         |
| <b>Area: E05 - TEIGEN COARSE ORE STOCKPILE</b>       |   |                   |            |           |          |          |          |       |         |
| E05-CNV-010  | TREATY COARSE ORE STOCKPILE TRIPPER CONVEYOR                  | 2134 W x 300000 L | 596.6      | ✓         |          |          |          |       | PFD     |
| E05-CNV-011  | TREATY COARSE ORE STOCKPILE APRON FEEDER DISCHARGE CONV       | 1524 W x 55000 L  | 29.8       | ✓         |          |          |          |       | PFD     |
| E05-CNV-012  | TREATY COARSE ORE STOCKPILE APRON FEEDER DISCHARGE CONV       | 1524 W x 25000 L  | 7.5        | ✓         |          |          |          |       | PFD     |
| E05-CNV-013  | TREATY COARSE ORE STOCKPILE APRON FEEDER DISCHARGE CONV       | 1524 W x 55000 L  | 29.8       | ✓         |          |          |          |       | PFD     |
| E05-CNV-014  | TREATY COARSE ORE STOCKPILE APRON FEEDER DISCHARGE CONV       | 1524 W x 25000 L  | 7.5        | ✓         |          |          |          |       | PFD     |
| E05-CNV-052  | TREATY COARSE ORE RECLAIM DUST COLLECTOR SCREW CONVEYO        |                   | 3.7        | ✓         |          |          |          |       | PFD     |
| E05-COL-051  | TREATY COARSE ORE RECLAIM DUST COLLECTOR WITH EXHAUST FA      |                   | 149.0      | ✓         |          |          |          |       | PFD     |
| E05-DUC-701  | BUILDING SERVICES DUST DUCTING COARSE ORE STOCKPILE           | 25,000 CFM        |            |           |          |          |          |       |         |
| E05-FAN-702  | BUILDING SERVICES EXHAUST FAN - RECLAIM TUNNEL COARSE ORE S   | 4,000 CFM         | 3.7        | ✓         |          |          |          |       |         |
| E05-FAN-710  | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN COARSE ORE S     | 25,000 CFM        | 78.0       | ✓         |          |          |          |       |         |
| E05-FAN-717  | BUILDING SERVICES AIR HANDLING UNIT - NO HEAT - RECLAIM COARS | 25,000CFM         | 18.7       | ✓         |          |          |          |       |         |
| E05-FDR-001  | TREATY COARSE ORE RECLAIM APRON FEEDER No.1                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-FDR-002  | TREATY COARSE ORE RECLAIM APRON FEEDER No.2                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-FDR-003  | TREATY COARSE ORE RECLAIM APRON FEEDER No.3                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-FDR-004  | TREATY COARSE ORE RECLAIM APRON FEEDER No.4                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-FDR-005  | TREATY COARSE ORE RECLAIM APRON FEEDER No.5                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-FDR-006  | TREATY COARSE ORE RECLAIM APRON FEEDER No.6                   | 1829 W x 8500 L   | 112.0      | ✓         |          |          |          |       | PFD     |
| E05-HOI-041  | TREATY COARSE ORE STOCKPILE HOIST No.1                        | 2t                | 2.0        | ✓         |          |          |          |       | PFD     |
| E05-HOI-042  | TREATY COARSE ORE STOCKPILE HOIST No.2                        | 2t                | 2.0        | ✓         |          |          |          |       | PFD     |
| E05-HTR-701  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-702  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-703  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-704  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-705  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-706  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-707  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-708  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-709  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-710  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-711  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-712  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-713  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-714  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-715  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-716  | BUILDING SERVICES ELECTRIC RADIANT HEATERS - RECLAIM COARSE   | 2kW               | 2.0        | ✓         |          |          |          |       |         |
| E05-HTR-718  | BUILDING SERVICES UNIT HEATER - FIRE VALVE ROOM COARSE ORE S  | 3kW               | 3.7        | ✓         |          |          |          |       |         |
| E05-VLV-053  | TREATY COARSE ORE RECLAIM DUST COLLECTOR ROTARY VALVE         |                   | 0.7        | ✓         |          |          |          |       | PFD     |
| TEIGEN COARSE ORE STOCKPILE TOTAL kW: 1636.7 1636.7  |   |                   |            |           |          |          |          |       |         |
| <b>Area: E07 - SECONDARY CRUSHING</b>                |   |                   |            |           |          |          |          |       |         |
| E07-ACU-701  | BUILDING SERVICES AIR CONDITIONING UNIT - ELECT ROOM PEBBLE C | 8,000CFM          | 7.5        | ✓         |          |          |          |       |         |
| E07-ACU-702  | BUILDING SERVICES AIR COOLED CONDENSING UNIT ELECTRICAL RO    | 20 TONS           | 18.7       | ✓         |          |          |          |       |         |
| E07-CHU-601  | CONE CRUSHING SCREEN SPLITTER CHUTE No.1                      |                   |            |           |          |          |          |       | PFD     |
| E07-CHU-602  | CONE CRUSHING SCREEN SPLITTER CHUTE No.2                      |                   |            |           |          |          |          |       | PFD     |
| E07-CHU-624  | CONE CRUSHING SCREEN OVERSIZE SPLITTER CHUTE                  |                   |            |           |          |          |          |       | PFD     |
| E07-CNV-614  | CONE CRUSHER DISCHARGE CONVEYOR No.3                          | 1829 W X 33000 L  | 12.0       | ✓         |          |          |          |       | PFD     |
| E07-CNV-615  | CONE CRUSHER DISCHARGE CONVEYOR No.1                          | 1829 W x 65500 L  | 145.0      | ✓         |          |          |          |       | PFD     |
| E07-CNV-616  | CONE CRUSHER DISCHARGE CONVEYOR No.2                          | 1829 W x 175000 L | 440.0      | ✓         |          |          |          |       | PFD     |
| E07-CNV-617  | CONE CRUSHING SCREEN UNDERSIZE CONVEYOR                       | 2134 W x 80000 L  | 75.0       | ✓         |          |          |          |       | PFD     |
| E07-CNV-618  | CONE CRUSHER BY PASS CONVEYOR No.1                            | 1372 W x 18000 L  | 8.0        | ✓         |          |          |          |       | PFD     |
| E07-CNV-619  | CONE CRUSHER BY PASS CONVEYOR No.2                            | 1372 W x 18000 L  | 8.0        | ✓         |          |          |          |       | PFD     |
| E07-CNV-621  | CONE CRUSHER FEED CONVEYOR No.1                               | 2134 W x 296000 L | 960.0      | ✓         |          |          |          |       | PFD     |
| E07-CNV-622  | CONE CRUSHER FEED CONVEYOR No.2                               | 2134 W x 192000 L | 960.0      | ✓         |          |          |          |       | PFD     |
| E07-CNV-623  | CONE CRUSHING SCREEN OVERSIZE TRANSFER CONVEYOR               | 1372 W x 33000 L  | 12.0       | ✓         |          |          |          |       | PFD     |
| E07-CNV-636  | FINE ORE STOCKPILE FEED CONVEYOR                              | 2134 W x 369000 L | 1675.0     | ✓         |          |          |          |       | PFD     |
| E07-CNV-652  | CONE CRUSHING BUILDING DUST COLLECTOR No.1 SCREW CONVEYO      |                   | 5.5        | ✓         |          |          |          |       | PFD     |
| E07-CNV-662  | CONE CRUSHING BUILDING DUST COLLECTOR No.2 SCREW CONVEYO      |                   | 5.5        | ✓         |          |          |          |       | PFD     |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                    | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|-------------------|------------|-----------|----------|----------|----------|-------|---------|
| E07-COL-651   | CONE CRUSHING BUILDING DUST COLLECTOR No.1 WITH EXHAUST FA      | 89,000 CFM        | 93.1       | ✓         | ☐        |          |          |       | PFD     |
| E07-COL-661   | CONE CRUSHING BUILDING DUST COLLECTOR No.2 WITH EXHAUST FA      | 63,000 CFM        | 50.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-CRN-620   | SECONDARY CRUSHING CRANE  | 35t               | 45.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-CRU-610   | CONE CRUSHER No.5   | MP 1000           | 750.0      | ☐         | ✓        |          |          |       | PFD     |
| E07-CRU-611   | CONE CRUSHER No.1   | MP 1000           | 750.0      | ✓         | ☐        |          |          |       | PFD     |
| E07-CRU-612   | CONE CRUSHER No.2   | MP 1000           | 750.0      | ✓         | ☐        |          |          |       | PFD     |
| E07-CRU-613   | CONE CRUSHER No.3   | MP 1000           | 750.0      | ✓         | ☐        |          |          |       | PFD     |
| E07-CRU-614   | CONE CRUSHER No.4   | MP 1000           | 750.0      | ✓         | ☐        |          |          |       | PFD     |
| E07-DUC-701   | BUILDING SERVICES DUST DUCTING PEBBLE CRUSHING                  | 63,000 CFM        |            | ☐         | ☐        |          |          |       |         |
| E07-DUC-702   | BUILDING SERVICES DUST DUCTING PEBBLE CRUSHING                  | 89,000 CFM        |            | ☐         | ☐        |          |          |       |         |
| E07-FAN-702   | BUILDING SERVICES SUPPLY FAN / FILTER - (PRESSURIZATION) ELECT  | 400 CFM           | 5.5        | ✓         | ☐        |          |          |       |         |
| E07-FAN-703   | BUILDING SERVICES UPBLAST ROOF EXHAUST FAN PEBBLE CRUSHIN       | 15,000CFM         | 7.5        | ✓         | ☐        |          |          |       |         |
| E07-FAN-704   | BUILDING SERVICES UPBLAST ROOF EXHAUST FAN PEBBLE CRUSHIN       | 15,000 CFM        | 7.5        | ✓         | ☐        |          |          |       |         |
| E07-FAN-705   | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - L | 1,500 CFM         | 3.7        | ✓         | ☐        |          |          |       |         |
| E07-FAN-706   | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - L | 1,500 CFM         | 3.7        | ✓         | ☐        |          |          |       |         |
| E07-FAN-710   | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PEBBLE CRUSHI      | 89,000 CFM        | 250.0      | ✓         | ☐        |          |          |       |         |
| E07-FAN-711   | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PEBBLE CRUSHI      | 63,000 CFM        | 200.0      | ✓         | ☐        |          |          |       |         |
| E07-HTR-703   | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT PEBBLE CRUSHING      | 40,000CFM         | 22.4       | ✓         | ☐        |          |          |       |         |
| E07-HTR-704   | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT PEBBLE CRUSHING      | 40,000 CFM        | 22.4       | ✓         | ☐        |          |          |       |         |
| E07-HTR-706   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-707   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-708   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-709   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-710   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-711   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-712   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-713   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-714   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-715   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-716   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-HTR-717   | BUILDING SERVICES PROPANE UNIT HEATER PEBBLE CRUSHING           | 30kW              | 0.7        | ✓         | ☐        |          |          |       |         |
| E07-LUB-630   | CONE CRUSHER LUBE UNIT No.1                                     |                   | 5.0        | ✓         | ☐        |          |          |       | PFD     |
| E07-LUB-631   | CONE CRUSHER LUBE UNIT No.2                                     |                   | 5.0        | ✓         | ☐        |          |          |       | PFD     |
| E07-LUB-632   | CONE CRUSHER LUBE UNIT No.3                                     |                   | 5.0        | ✓         | ☐        |          |          |       | PFD     |
| E07-LUB-633   | CONE CRUSHER LUBE UNIT No.4                                     |                   | 5.0        | ✓         | ☐        |          |          |       | PFD     |
| E07-MED-631   | CONE CRUSHER FEED CONVEYOR No.1 METAL DETECTOR                  |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-MED-632   | CONE CRUSHER FEED CONVEYOR No.2 METAL DETECTOR                  |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-MGT-627   | CONE CRUSHER FEED CONVEYOR No.1 SELF CLEANER MAGNET No. 1       |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-MGT-628   | CONE CRUSHER FEED CONVEYOR No.2 SELF CLEANER MAGNET No. 1       |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-MGT-633   | CONE CRUSHER FEED CONVEYOR No.1 SELF CLEANER MAGNET No. 2       |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-MGT-634   | CONE CRUSHER FEED CONVEYOR No.2 SELF CLEANER MAGNET No. 2       |                   | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-SCN-603   | CONE CRUSHING SCREEN No.1                                       | 3700 W x 7300 L   | 75.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-SCN-604   | CONE CRUSHING SCREEN No.2                                       | 3700 W x 7300 L   | 75.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-SCN-605   | CONE CRUSHING SCREEN No.3                                       | 3700 W x 7300 L   | 75.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-SCN-606   | CONE CRUSHING SCREEN No.4                                       | 3700 W x 7300 L   | 75.0       | ✓         | ☐        |          |          |       | PFD     |
| E07-SCN-619   | CONE CRUSHING SCREEN (SPARE) No.5                               | 3700 x 7300       | 75.0       | ☐         | ✓        |          |          |       | PFD     |
| E07-VLV-653   | CONE CRUSHING BUILDING DUST COLLECTOR No.1 ROTARY VALVE         |                   | 0.7        | ✓         | ☐        |          |          |       | PFD     |
| E07-VLV-663   | CONE CRUSHING BUILDING DUST COLLECTOR No.2 ROTARY VALVE         |                   | 0.7        | ✓         | ☐        |          |          |       | PFD     |
| SECONDARY CRUSHING TOTAL kW:                        |   |                   | 9257.7     | 8432.7    |          |          |          |       |         |
| <b>Area: E08 - FINE ORE STOCKPILE (HPGR OPTION)</b> |   |                   |            |           |          |          |          |       |         |
| E08-AIC-711   | FINE ORE STOCKPILE COMPRESSOR No.1                              | 365 Nm³/h 860kPag | 37.0       | ✓         | ☐        |          |          |       | PFD     |
| E08-AIC-712   | FINE ORE STOCKPILE COMPRESSOR No.2                              | 365 Nm³/h 860kPag | 37.0       | ✓         | ☐        |          |          |       | PFD     |
| E08-AID-731   | FINE ORE STOCKPILE AIR DRYER                                    | 365 Nm³/h 860kPag |            | ☐         | ☐        |          |          |       | PFD     |
| E08-AIR-741   | FINE ORE STOCKPILE AIR RECEIVER                                 | 4 m³              |            | ☐         | ☐        |          |          |       | PFD     |
| E08-CNV-621   | HPGR FEED CONVEYOR No.1   | 1372 W x 645000 L | 600.0      | ✓         | ☐        |          |          |       | PFD     |
| E08-CNV-622   | HPGR FEED CONVEYOR No.2   | 1372 W x 645000 L | 600.0      | ✓         | ☐        |          |          |       | PFD     |
| E08-CNV-652   | FINE ORE STOCKPILE DUST COLLECTOR SCREW CONVEYOR                |                   | 3.7        | ✓         | ☐        |          |          |       | PFD     |
| E08-COL-651   | FINE ORE STOCKPILE DUST COLLECTOR WITH EXHAUST FAN              | 25,000 CFM        | 56.0       | ✓         | ☐        |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                  | DESCRIPTION                                    | EQUIPMENT SIZE      | POWER (kW)    | OPERATING     | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|--|---------------------|---------------|---------------|----------|----------|----------|-------|---------|
| E08-FDR-601                                       | FINE ORE RECLAIM APRON FEEDER No.1             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FDR-602                                       | FINE ORE RECLAIM APRON FEEDER No.2             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FDR-603                                       | FINE ORE RECLAIM APRON FEEDER No.3             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FDR-604                                       | FINE ORE RECLAIM APRON FEEDER No.4             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FDR-605                                       | FINE ORE RECLAIM APRON FEEDER No.5             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FDR-606                                       | FINE ORE RECLAIM APRON FEEDER No.6             | 1524 W x 7600 L     | 112.0         | ✓             | ☐        |          |          |       | PFD     |
| E08-FIL-721                                       | FINE ORE STOCKPILE AIR FILTER                  |                     |               | ☐             | ☐        |          |          |       | PFD     |
| E08-HOI-641                                       | FINE ORE STOCKPILE HOIST No.1                  | 2t                  | 2.0           | ✓             | ☐        |          |          |       | PFD     |
| E08-HOI-642                                       | FINE ORE STOCKPILE HOIST No.2                  | 2t                  | 2.0           | ✓             | ☐        |          |          |       | PFD     |
| E08-MED-625                                       | HPGR FEED CONVEYOR No.1 METAL DETECTOR         |                     | 10.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-MED-626                                       | HPGR FEED CONVEYOR No.2 METAL DETECTOR         |                     | 10.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-MGT-627                                       | HPGR FEED CONVEYOR No.1 SELF CLEANER MAGNET    |                     | 10.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-MGT-628                                       | HPGR FEED CONVEYOR No.2 SELF CLEANER MAGNET    |                     | 10.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-PSU-601                                       | FINE ORE STOCKPILE SUMP PUMP                   |                     | 15.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-PSU-610                                       | FINE ORE STOCKPILE AREA (MINESITE) SUMP PUMP   | 150                 | 15.0          | ✓             | ☐        |          |          |       | PFD     |
| E08-VLV-653                                       | FINE ORE STOCKPILE DUST COLLECTOR ROTARY VALVE |                     | 0.7           | ✓             | ☐        |          |          |       | PFD     |
| <i>FINE ORE STOCKPILE (HPGR OPTION) TOTAL kW:</i> |  |                     | <b>2080.4</b> | <b>2080.4</b> |          |          |          |       |         |
| <b>Area: E09 - TERTIARY CRUSHING (HPGR)</b>       |  |                     |               |               |          |          |          |       |         |
| E09-BIN-603                                       | HPGR SURGE BIN No.1                            | 400t                |               | ☐             | ☐        |          |          |       | PFD     |
| E09-BIN-604                                       | HPGR SURGE BIN No.2                            | 400t                |               | ☐             | ☐        |          |          |       | PFD     |
| E09-CHU-617                                       | HPGR OVERSIZE CONVEYOR No.3 SPLITTER CHUTE     |                     |               | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-650                                       | HPGR CRUSHER DISCHARGE CONVEYOR No.1           | 1829 W x 25600 L    | 70.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-651                                       | HPGR CRUSHER DISCHARGE CONVEYOR No.2           | 1829 W x 25600 L    | 70.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-652                                       | HPGR SCREEN FEED CONVEYOR No.1                 | 1829 W x 205000 L   | 440.0         | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-653                                       | HPGR SCREEN FEED CONVEYOR No.2                 | 1829 W x 205000 L   | 440.0         | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-654                                       | HPGR SCREEN OVERSIZE CONVEYOR No.4             | 1372 W x 60000 L    | 12.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-662                                       | HPGR DUST COLLECTOR No.1 SCREW CONVEYOR        |                     | 3.7           | ✓             | ☐        |          |          |       | PFD     |
| E09-CNV-672                                       | HPGR DUST COLLECTOR No.2 SCREW CONVEYOR        |                     | 3.7           | ✓             | ☐        |          |          |       | PFD     |
| E09-COL-661                                       | HPGR DUST COLLECTOR No.1 WITH EXHAUST FAN      | 27,000 CFM          | 50.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-COL-671                                       | HPGR DUST COLLECTOR No.2 WITH EXHAUST FAN      | 52,000 CFM          | 50.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-COO-645                                       | HPGR CRUSHER No.1 LUBRICATION COOLER           |                     | 5.0           | ✓             | ☐        |          |          |       | PFD     |
| E09-COO-646                                       | HPGR CRUSHER No.2 LUBRICATION COOLER           |                     | 5.0           | ✓             | ☐        |          |          |       | PFD     |
| E09-COO-647                                       | HPGR CRUSHER No.3 LUBRICATION COOLER           |                     | 5.0           | ✓             | ☐        |          |          |       | PFD     |
| E09-COO-648                                       | HPGR CRUSHER No.4 LUBRICATION COOLER           |                     | 5.0           | ✓             | ☐        |          |          |       | PFD     |
| E09-CRN-610                                       | HPGR BUILDING AREA CRANE                       | 50t                 | 75.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-CRU-620                                       | HIGH PRESSURE GRINDING ROLL No.1               |                     | 5800.0        | ✓             | ☐        |          |          |       | PFD     |
| E09-CRU-625                                       | HIGH PRESSURE GRINDING ROLL No.2               |                     | 5800.0        | ✓             | ☐        |          |          |       | PFD     |
| E09-CRU-630                                       | HIGH PRESSURE GRINDING ROLL No.3               |                     | 5800.0        | ✓             | ☐        |          |          |       | PFD     |
| E09-CRU-635                                       | HIGH PRESSURE GRINDING ROLL No.4               |                     | 5800.0        | ✓             | ☐        |          |          |       | PFD     |
| E09-EQP-605                                       | HPGR SURGE BIN No.1 VENT                       | 8000 CFM            | 0.2           | ✓             | ☐        |          |          |       | PFD     |
| E09-EQP-606                                       | HPGR SURGE BIN No.2 VENT                       | 8000 CFM            | 0.2           | ✓             | ☐        |          |          |       | PFD     |
| E09-FDR-615                                       | HPGR BELT FEEDER No. 1 (RAIL MOUNTED)          | 1524 W x 10000 L    | 80.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-FDR-616                                       | HPGR BELT FEEDER No. 2 (RAIL MOUNTED)          | 1524 W x 10000 L    | 80.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-FDR-617                                       | HPGR BELT FEEDER No. 3 (RAIL MOUNTED)          | 1524 W x 10000 L    | 80.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-FDR-618                                       | HPGR BELT FEEDER No. 4 (RAIL MOUNTED)          | 1524 W x 10000 L    | 80.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-LUB-640                                       | HPGR CRUSHER No.1 LUBE UNIT                    |                     | 22.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-LUB-641                                       | HPGR CRUSHER No.2 LUBE UNIT                    |                     | 22.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-LUB-642                                       | HPGR CRUSHER No.3 LUBE UNIT                    |                     | 22.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-LUB-643                                       | HPGR CRUSHER No.4 LUBE UNIT                    |                     | 22.0          | ✓             | ☐        |          |          |       | PFD     |
| E09-MOT-621                                       | HIGH PRESSURE GRINDING ROLL No.1 MOTOR No.1    | PART OF E09-CRU-620 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-622                                       | HIGH PRESSURE GRINDING ROLL No.1 MOTOR No.2    | PART OF E09-CRU-620 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-626                                       | HIGH PRESSURE GRINDING ROLL No.2 MOTOR No.1    | PART OF E09-CRU-625 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-627                                       | HIGH PRESSURE GRINDING ROLL No.2 MOTOR No.2    | PART OF E09-CRU-625 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-631                                       | HIGH PRESSURE GRINDING ROLL No.3 MOTOR No.1    | PART OF E09-CRU-630 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-632                                       | HIGH PRESSURE GRINDING ROLL No.3 MOTOR No.2    | PART OF E09-CRU-630 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-636                                       | HIGH PRESSURE GRINDING ROLL No.4 MOTOR No.1    | PART OF E09-CRU-635 |               | ✓             | ☐        |          |          |       |         |
| E09-MOT-637                                       | HIGH PRESSURE GRINDING ROLL No.4 MOTOR No.2    | PART OF E09-CRU-635 |               | ✓             | ☐        |          |          |       |         |
| E09-ROL-681                                       | HPGR SPARE ROLLER SET                          |                     |               | ✓             | ☐        |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW) | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|-------------------|------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| E09-VLV-663   | HPGR DUST COLLECTOR No.1 ROTARY VALVE                           |                   | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E09-VLV-673   | HPGR DUST COLLECTOR No.2 ROTARY VALVE                           |                   | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| TERTIARY CRUSHING (HPGR) TOTAL kW:  |   |                   |            | 24844.2                             | 24844.2                  |          |          |       |         |
| <b>Area: E10 - MILL BUILDING</b>  |   |                   |            |                                     |                          |          |          |       |         |
| E10-AIC-001   | PLANT AIR COMPRESSOR No.1                                       | 1500 Nm³/h        | 150.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E10-AIC-002   | PLANT AIR COMPRESSOR No.2                                       | 1500 Nm³/h        | 150.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E10-AID-041   | PLANT INSTRUMENT AIR DRYER No.1                                 | 350 Nm³/h 860kPag |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E10-AID-042   | PLANT INSTRUMENT AIR DRYER No.2                                 | 350 Nm³/h 860kPag |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E10-AIR-006   | PLANT AIR RECEIVER  | 5 m³              |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E10-AIR-045   | PLANT INSTRUMENT AIR RECEIVER No.2                              | 3 m³              |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E10-FAN-001   | BUILDING SERVICES FAN - HEAT RECOVERY SECONDARY GRINDING        | 15,000 CFM        | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-002   | BUILDING SERVICES FAN - HEAT RECOVERY SECONDARY GRINDING        | 15,000 CFM        | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-003   | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN SECONDARY GRIN       | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-004   | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN SECONDARY GRIN       | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-005   | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN SECONDARY GRIN       | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-006   | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN SECONDARY GRIN       | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FAN-007   | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN SECONDARY GRIN       | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-FIL-015   | PLANT AIR FILTER  |                   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E10-HTR-008   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-009   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-010   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-011   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-012   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-013   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-014   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-015   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-016   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-017   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-018   | BUILDING SERVICES PROPANE UNIT HEATER SECONDARY GRINDING        | 30kW              | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-021   | BUILDING SERVICES PROPANE MAKE UP AIR UNIT SECONDARY GRINDI     | 30,000 CFM        | 18.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E10-HTR-022   | BUILDING SERVICES PROPANE MAKE UP AIR UNIT SECONDARY GRINDI     | 30,000 CFM        | 18.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| MILL BUILDING TOTAL kW:   |   |                   |            | 416.1                               | 416.1                    |          |          |       |         |
| <b>Area: E15 - PRIMARY &amp; SECONDARY GRINDING (INCLUDING PEBBLE CRUSHING)</b> |   |                   |            |                                     |                          |          |          |       |         |
| E15-ACU-001   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL MCC ROOM P   | 8000 CFM          | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-002   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - MCC ROOM PR      | 20 TONS           | 14.9       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-003   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL ELECT ROOM   | 8000 CFM          | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-004   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - ELECT ROOM P     | 20 TONS           | 14.9       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-005   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL OFFICES PRIM | 4000 CFM          | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-006   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - OFFICES PRIMA    | 10 TONS           | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-007   | BUILDING SERVICES AIR CONDITIONING UNIT - FAN COIL CONTROL RO   | 4000 CFM          | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ACU-008   | BUILDING SERVICES AIR COOLED CONDENSING UNIT - CONTROL ROO      | 10 TONS           | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-ANA-003   | PARTICLE SIZE ANALYZER No.1                                     |                   | 1.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-ANA-004   | PARTICLE SIZE ANALYZER No.2                                     |                   | 1.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CHU-601   | HPGR SCREEN SPLITTER CHUTE No.1                                 |                   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CHU-602   | HPGR SCREEN SPLITTER CHUTE No.2                                 |                   |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CNV-615   | HPGR SCREEN OVERSIZE CONVEYOR No.1                              | 1372 W x 25000 L  | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CNV-616   | HPGR SCREEN OVERSIZE CONVEYOR No.2                              | 1372 W x 25000 L  | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CNV-617   | HPGR SCREEN OVERSIZE CONVEYOR No.3                              | 1372 W x 163000 L | 235.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CRN-005   | PRIMARY GRINDING CRANE No.1                                     | 110/20t           | 120.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CRN-007   | PRIMARY GRINDING CRANE No.2                                     | 50/10t            | 75.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CRN-008   | PRIMARY GRINDING CRANE No.3                                     | 50/10t            | 75.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CYC-020   | PRIMARY GRINDING CYCLONE CLUSTER No.1 (11 OPERATING / 1 STAN    | 12 x 710          |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CYC-021   | PRIMARY GRINDING CYCLONE CLUSTER No.2 (11 OPERATING / 1 STAN    | 12 x 710          |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CYC-022   | PRIMARY GRINDING CYCLONE CLUSTER No.3 (11 OPERATING / 1 STAN    | 12 x 710          |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-CYC-023   | PRIMARY GRINDING CYCLONE CLUSTER No.4 (11 OPERATING / 1 STAN    | 12 x 710          |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-DRV-035   | BALL MILL INCHING DRIVE   |                   |            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-DUC-701   | BUILDING SERVICES DUST DUCTING PRIMARY GRINDING                 | 52,000 CFM        |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |
| E15-DUC-702   | BUILDING SERVICES DUST DUCTING PRIMARY GRINDING                 | 27,000 CFM        |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER | DESCRIPTION   | EQUIPMENT SIZE | POWER (kW) | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|------------------|---|----------------|------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| E15-EQP-181      | BALL MILL CRADLE No.1   |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-EQP-182      | BALL MILL CRADLE No.2   |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-EQP-183      | BALL MILL BALL CHARGING SYSTEM                                  |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-EQP-185      | BALL MILL CRADLE No.3   |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-EQP-186      | BALL MILL CRADLE No.4   |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-FAN-001      | BUILDING SERVICES FAN - HEAT RECOVERY PRIMARY GRINDING          | 15,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-002      | BUILDING SERVICES FAN - HEAT RECOVERY PRIMARY GRINDING          | 15,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-003      | BUILDING SERVICES FAN - HEAT RECOVERY PRIMARY GRINDING          | 15,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-004      | BUILDING SERVICES FAN - HEAT RECOVERY PRIMARY GRINDING          | 15,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-005      | BUILDING SERVICES EXHAUST FAN - COMPRESSOR /BLOWER ROOM P       | 10,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-006      | BUILDING SERVICES EXHAUST FAN - COMPRESSOR /BLOWER ROOM P       | 10,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-007      | BUILDING SERVICES EXHAUST FAN - COMPRESSOR /BLOWER ROOM P       | 10,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-008      | BUILDING SERVICES EXHAUST FAN - COMPRESSOR /BLOWER ROOM P       | 10,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-009      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN PRIMARY GRINDIN      | 40,000 CFM     | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-010      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN PRIMARY GRINDIN      | 40,000 CFM     | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-011      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN PRIMARY GRINDIN      | 40,000 CFM     | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-012      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN PRIMARY GRINDIN      | 40,000 CFM     | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-013      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN PRIMARY GRINDIN      | 40,000 CFM     | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-014      | BUILDING SERVICES AIR HANDLING UNIT (no heat) - TRANSFORMER RO  | 20,000 CFM     | 14.9       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-015      | BUILDING SERVICES AIR HANDLING UNIT (no heat) - TRANSFORMER RO  | 20,000 CFM     | 14.9       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-016      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - M | 1,200 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-017      | BUILDING SERVICES WALL SUPPLY FAN / FILTER UNIT - BALL MILL LUB | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-018      | BUILDING SERVICES WALL SUPPLY FAN / FILTER UNIT - BALL MILL LUB | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-020      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - E | 1,200 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-021      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) - C | 1,200 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-701      | BUILDING SERVICES UPBLAST ROOF EXHAUST FAN PRIMARY GRINDIN      | 15,000CFM      | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-702      | BUILDING SERVICES UPBLAST ROOF EXHAUST FAN PRIMARY GRINDIN      | 15,000 CFM     | 7.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-703      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) PRI | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-704      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) PRI | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-705      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) PRI | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-706      | BUILDING SERVICES SUPPLY FAN / FILTER UNIT (PRESSURIZATION) PRI | 1,500 CFM      | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-711      | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PRIMARY GRIND      | 8000 cfm       | 11.1       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-712      | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PRIMARY GRIND      | 27,000 CFM     | 65.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-811      | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PRIMARY GRIND      | 52,000 CFM     | 128.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FAN-812      | BUILDING SERVICES DUST COLLECTOR EXHAUST FAN PRIMARY GRIND      | 8000 cfm       | 11.1       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-FIL-197      | COOLING WATER FILTER  |                |            | <input type="checkbox"/>            | <input type="checkbox"/> |          |          |       | PFD     |
| E15-HAN-036      | BALL MILL LINER HANDLER   |                | 80.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HOI-189      | GRINDING AREA SUMP PUMP HOIST                                   | 15t            | 25.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E15-HTR-001      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-002      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-003      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-004      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-005      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-006      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-007      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-008      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-009      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-012      | BUILDING SERVICES PROPANE MAKE UP AIR UNIT PRIMARY GRINDING     | 30,000 CFM     | 18.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-013      | BUILDING SERVICES PROPANE MAKE UP AIR UNIT PRIMARY GRINDING     | 30,000 CFM     | 18.7       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-016      | BUILDING SERVICES ELECTRIC DUCT HEATER - ELECT ROOM PRIMARY     | 34Kw           | 34.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-017      | BUILDING SERVICES ELECTRIC DUCT HEATER - MCC PRIMARY GRINDI     | 34Kw           | 34.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-018      | BUILDING SERVICES ELECTRIC DUCT HEATER - CONTROL ROOM PRIM      | 34 KW          | 34.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-019      | BUILDING SERVICES ELECTRIC DUCT HEATER - MCC PRIMARY GRINDI     | 34Kw           | 34.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-701      | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT PRIMARY GRINDING     | 40,000CFM      | 22.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-702      | BUILDING SERVICES PROPANE MAKE-UP AIR UNIT PRIMARY GRINDING     | 40,000 CFM     | 22.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-703      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-704      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-705      | BUILDING SERVICES PROPANE UNIT HEATER - TERT CRUSHING PRIMA     | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E15-HTR-706      | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING          | 30kW           | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION  | EQUIPMENT SIZE        | POWER (kW)     | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|--|-----------------------|----------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E15-HTR-707   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-708   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-709   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-710   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-711   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-712   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-713   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-HTR-714   | BUILDING SERVICES PROPANE UNIT HEATER PRIMARY GRINDING     | 30kW                  | 0.7            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-LUB-031   | BALL MILL LUBE UNIT No.1                                   |                       | 110.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-LUB-032   | BALL MILL LUBE UNIT No.2                                   |                       | 110.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-LUB-033   | BALL MILL LUBE UNIT No.3                                   |                       | 110.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-LUB-034   | BALL MILL LUBE UNIT No.4                                   |                       | 110.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-MIL-025   | BALL MILL No.1   | 7600 D x 11900 L      | 14000.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-MIL-026   | BALL MILL No.2   | 7600 D x 11900 L      | 14000.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-MIL-027   | BALL MILL No.3   | 7600 D x 11900 L      | 14000.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-MIL-028   | BALL MILL No.4   | 7600 D x 11900 L      | 14000.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PBX-052   | CYCLONE CLUSTER FEED PUMPBOX No.1                          |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PBX-053   | CYCLONE CLUSTER FEED PUMPBOX No.2                          |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PBX-054   | CYCLONE CLUSTER FEED PUMPBOX No.3                          |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PBX-055   | CYCLONE CLUSTER FEED PUMPBOX No.4                          |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PPK-184   | MILL INCHING HYDRAULIC POWER PACK                          |                       | 150.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSL-045   | PRIMARY CYCLONE CLUSTER No.1 FEED PUMP (VFD)               | 700 x 650             | 1650.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSL-046   | PRIMARY CYCLONE CLUSTER No.2 FEED PUMP (VFD)               | 700 x 650             | 1650.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSL-047   | PRIMARY CYCLONE CLUSTER No.3 FEED PUMP (VFD)               | 700 x 650             | 1650.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSL-048   | PRIMARY CYCLONE CLUSTER No.4 FEED PUMP (VFD)               | 700 x 650             | 1650.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSL-049   | PRIMARY CYCLONE CLUSTER No.1 & 2 FEED PUMP (VFD) (BACK-UP) | 700 x 650             | 1650.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E15-PSL-050   | PRIMARY CYCLONE CLUSTER No.3 & 4 FEED PUMP (VFD) (BACK-UP) | 700 x 650             | 1650.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E15-PSU-066   | GRINDING AREA SUMP PUMP No.1                               | 250                   | 60.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-PSU-068   | GRINDING AREA SUMP PUMP No.2                               | 250                   | 60.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SCB-545   | PEBBLE CRUSHER DISCHARGE SCALE No.1                        |                       | 1.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SCB-555   | PEBBLE CRUSHER DISCHARGE SCALE No.2                        |                       | 1.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SCN-610   | HPGR SCREEN No.1   | 4000 W x 8000 L       | 75.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SCN-611   | HPGR SCREEN No.2   | 4000 W x 8000 L       | 75.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SCN-612   | HPGR SCREEN No.3   | 4000 W x 8000 L       | 75.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SCN-613   | HPGR SCREEN No.4   | 4000 W x 8000 L       | 75.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SCN-614   | HPGR SCREEN No.5 (SPARE)                                   | 4000 W x 8000 L       | 75.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E15-SMP-060   | CYCLONE CLUSTER OVERFLOW No.1 SAMPLER                      |                       | 2.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SMP-061   | CYCLONE CLUSTER OVERFLOW No.2 SAMPLER                      |                       | 2.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SMP-062   | CYCLONE CLUSTER OVERFLOW No.3 SAMPLER                      |                       | 2.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SMP-063   | CYCLONE CLUSTER OVERFLOW No.4 SAMPLER                      |                       | 2.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E15-SYS-511   | MILL COOLING SYSTEM  |                       | 350.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| <i>PRIMARY &amp; SECONDARY GRINDING (INCLUDING PEBBLE CRUSHING) TOTAL kW:</i> |  |                       | <b>68730.9</b> | <b>65430.9</b>                      |                                     |          |          |       |         |
| <b>Area: E20 - FLOTATION</b>  |  |                       |                |                                     |                                     |          |          |       |         |
| E20-ANA-060   | X-RAY ANALYZER   |                       | 5.0            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-BLO-064   | FLOTATION AERATION BLOWER No.1                             |                       | 600.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-BLO-065   | FLOTATION AERATION BLOWER No.2                             |                       | 600.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-BLO-066   | FLOTATION AERATION BLOWER No.3                             |                       | 600.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-BLO-067   | FLOTATION AERATION BLOWER No.4                             |                       | 600.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-BLO-068   | FLOTATION AERATION BLOWER No.5                             |                       | 600.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CRN-053   | COPPER FLOTATION AREA CRANE                                | 30t                   | 45.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CRN-054   | COPPER REGRIND AREA CRANE                                  | 20t                   | 30.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CRN-055   | Au-PYRITE FLOTATION AREA CRANE                             | 20t                   | 30.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CRN-056   | Au-PYRITE CONCENTRATE REGRIND AREA CRANE                   | 30t                   | 45.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CYC-034   | Cu ROUGHER CONCENTRATE REGRIND CYCLONE CLUSTER             | 25 x 250 (22 op 3 st) |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-CYC-174   | PYRITE ROUGHER CONCENTRATE REGRIND CYCLONE CLUSTER         | 26 x 250 (23 op 3 st) |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-DIS-036   | Cu ROUGHER CONCENTRATE REGRIND MILL FEED DISTRIBUTOR       |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-DIS-175   | PYRITE ROUGHER CONCENTRATE REGRIND MILL FEED DISTRIBUTOR   |                       |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-EQP-062   | NITROGEN GAS GENERATOR                                     |                       | 1500.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER | DESCRIPTION  | EQUIPMENT SIZE    | POWER (kW) | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|------------------|--|-------------------|------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| E20-FAN-001      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FAN-002      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FAN-003      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FAN-004      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FAN-005      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FAN-006      | BUILDING SERVICES ROOF UPBLAST EXHAUST FAN FLOTATION | 40,000 CFM        | 11.2       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| E20-FLO-001      | Cu ROUGHER FLOTATION CELL No.1                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-002      | Cu ROUGHER FLOTATION CELL No.2                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-003      | Cu ROUGHER FLOTATION CELL No.3                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-004      | Cu ROUGHER FLOTATION CELL No.4                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-005      | Cu ROUGHER FLOTATION CELL No.5                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-006      | Cu ROUGHER FLOTATION CELL No.6                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-007      | Cu ROUGHER FLOTATION CELL No.7                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-008      | Cu ROUGHER FLOTATION CELL No.8                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-009      | Cu ROUGHER FLOTATION CELL No.9                       | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-010      | Cu ROUGHER FLOTATION CELL No.10                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-011      | Cu ROUGHER FLOTATION CELL No.11                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-012      | Cu ROUGHER FLOTATION CELL No.12                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-013      | Cu ROUGHER FLOTATION CELL No.13                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-014      | Cu ROUGHER FLOTATION CELL No.14                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-015      | Cu ROUGHER FLOTATION CELL No.15                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-016      | Cu ROUGHER FLOTATION CELL No.16                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-017      | Cu ROUGHER FLOTATION CELL No.17                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-018      | Cu ROUGHER FLOTATION CELL No.18                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-019      | Cu ROUGHER FLOTATION CELL No.19                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-020      | Cu ROUGHER FLOTATION CELL No.20                      | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-070      | Cu 1st CLEANER CELL No.1                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-071      | Cu 1st CLEANER CELL No.2                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-072      | Cu 1st CLEANER CELL No.3                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-073      | Cu 1st CLEANER CELL No.4                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-074      | Cu 1st CLEANER CELL No.5                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-075      | Cu 1st CLEANER CELL No.6                             | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-080      | Cu 1st CLEANER SCAVENGER CELL No.1                   | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-081      | Cu 1st CLEANER SCAVENGER CELL No.2                   | 100m <sup>3</sup> | 132.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-091      | Cu 2nd CLEANER FLOTATION CELL No.1                   | 50m <sup>3</sup>  | 55.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-092      | Cu 2nd CLEANER FLOTATION CELL No.2                   | 50m <sup>3</sup>  | 55.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-093      | Cu 2nd CLEANER FLOTATION CELL No.3                   | 50m <sup>3</sup>  | 55.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-101      | Cu 3rd CLEANER FLOTATION CELL No.1                   | 50m <sup>3</sup>  | 55.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-102      | Cu 3rd CLEANER FLOTATION CELL No.2                   | 50m <sup>3</sup>  | 55.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-121      | PYRITE ROUGHER FLOTATION CELL No.1                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-122      | PYRITE ROUGHER FLOTATION CELL No.2                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-123      | PYRITE ROUGHER FLOTATION CELL No.3                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-124      | PYRITE ROUGHER FLOTATION CELL No.4                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-125      | PYRITE ROUGHER FLOTATION CELL No.5                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-126      | PYRITE ROUGHER FLOTATION CELL No.6                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-127      | PYRITE ROUGHER FLOTATION CELL No.7                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-128      | PYRITE ROUGHER FLOTATION CELL No.8                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-129      | PYRITE ROUGHER FLOTATION CELL No.9                   | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-130      | PYRITE ROUGHER FLOTATION CELL No.10                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-131      | PYRITE ROUGHER FLOTATION CELL No.11                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-132      | PYRITE ROUGHER FLOTATION CELL No.12                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-133      | PYRITE ROUGHER FLOTATION CELL No.13                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-134      | PYRITE ROUGHER FLOTATION CELL No.14                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-135      | PYRITE ROUGHER FLOTATION CELL No.15                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-136      | PYRITE ROUGHER FLOTATION CELL No.16                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-137      | PYRITE ROUGHER FLOTATION CELL No.17                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-138      | PYRITE ROUGHER FLOTATION CELL No.18                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-139      | PYRITE ROUGHER FLOTATION CELL No.19                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |
| E20-FLO-140      | PYRITE ROUGHER FLOTATION CELL No.20                  | 200m <sup>3</sup> | 215.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER | DESCRIPTION   | EQUIPMENT SIZE | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|------------------|---|----------------|------------|-----------|----------|----------|----------|-------|---------|
| E20-FLO-195      | COPPER/PYRITE SEPARATION FLOTATION CELL No.1                | 100m³          | 132.0      | ✓         | ☐        |          |          |       | PFD     |
| E20-FLO-196      | COPPER/PYRITE SEPARATION FLOTATION CELL No.2                | 100m³          | 132.0      | ✓         | ☐        |          |          |       | PFD     |
| E20-HTR-001      | BUILDING SERVICES PROPANE MAKE UP AIR UNIT FLOTATION        | 30,000 CFM     | 18.7       | ✓         | ☐        |          |          |       |         |
| E20-HTR-002      | BUILDING SERVICES PROPANE UNIT HEATER FLOTATION             | 30kW           | 0.7        | ✓         | ☐        |          |          |       |         |
| E20-HTR-003      | BUILDING SERVICES PROPANE UNIT HEATER FLOTATION             | 30kW           | 0.7        | ✓         | ☐        |          |          |       |         |
| E20-HTR-004      | BUILDING SERVICES PROPANE UNIT HEATER FLOTATION             | 30kW           | 0.7        | ✓         | ☐        |          |          |       |         |
| E20-HTR-005      | BUILDING SERVICES PROPANE UNIT HEATER FLOTATION             | 30kW           | 0.7        | ✓         | ☐        |          |          |       |         |
| E20-MIL-037      | Cu ROUGHER REGRIND TOWER MILL No.1                          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-038      | Cu ROUGHER REGRIND TOWER MILL No.2                          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-039      | Cu ROUGHER REGRIND TOWER MILL No.3                          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-040      | Cu ROUGHER REGRIND TOWER MILL No.4 (FUTURE)                 |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-176      | PYRITE ROUGHER CONCENTRATE REGRIND TOWER MILL No.1          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-177      | PYRITE ROUGHER CONCENTRATE REGRIND TOWER MILL No.2          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-178      | PYRITE ROUGHER CONCENTRATE REGRIND TOWER MILL No.3          |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-MIL-179      | PYRITE ROUGHER CONCENTRATE REGRIND TOWER MILL No.4 (FUTURE) |                | 2240.0     | ✓         | ☐        |          |          |       | PFD     |
| E20-PBX-030      | Cu ROUGHER CONCENTRATE REGRIND CYCLONE FEED PUMPBOX         |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-088      | Cu 1st CLEANER SCAVENGER TAILINGS PUMPBOX                   |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-098      | Cu 2nd CLEANER TAILINGS PUMPBOX                             |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-105      | Cu 3rd CLEANER TAILINGS PUMPBOX                             |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-161      | PYRITE FLOTATION TAILINGS PUMPBOX No.1                      |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-165      | PYRITE FLOTATION TAILINGS PUMPBOX No.2                      |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-170      | PYRITE ROUGHER CONCENTRATE REGRIND CYCLONE FEED PUMPBO      |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PBX-200      | GOLD-PYRITE CONCENTRATE PUMPBOX                             |                |            | ☐         | ☐        |          |          |       | PFD     |
| E20-PSL-031      | Cu ROUGHER REGRIND CYCLONE FEED PUMP (VFD) No.1             | 400 x 350      | 500.0      | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-032      | Cu ROUGHER REGRIND CYCLONE FEED PUMP (VFD) No.2             | 400 x 350      | 500.0      | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-077      | Cu 1st CLEANER CONCENTRATE VERTICAL PUMP No.1               | 250            | 45.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-078      | Cu 1st CLEANER CONCENTRATE VERTICAL PUMP No.2               | 250            | 45.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-086      | Cu 1st CLEANER SCAVENGER CONCENTRATE VERTICAL PUMP No.1     | 100            | 20.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-087      | Cu 1st CLEANER SCAVENGER CONCENTRATE VERTICAL PUMP No.2     | 100            | 20.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-089      | Cu 1st CLEANER SCAVENGER TAILINGS PUMP No.1                 | 350 x 300      | 130.0      | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-090      | Cu 1st CLEANER SCAVENGER TAILINGS PUMP No.2                 | 350 x 300      | 130.0      | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-096      | Cu 2nd CLEANER CONCENTRATE VERTICAL PUMP No.1               | 250            | 36.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-097      | Cu 2nd CLEANER CONCENTRATE VERTICAL PUMP No.2               | 250            | 36.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-099      | Cu 2nd CLEANER TAILINGS PUMP No.1                           | 200 x 150      | 16.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-100      | Cu 2nd CLEANER TAILINGS PUMP No.2                           | 200 x 150      | 16.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-106      | Cu 3rd CLEANER TAILINGS PUMP No.1                           | 100 x 75       | 7.5        | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-107      | Cu 3rd CLEANER TAILINGS PUMP No.2                           | 100 x 75       | 7.5        | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-109      | Cu 3rd CLEANER CONCENTRATE VERTICAL PUMP No.1               | 250            | 24.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-110      | Cu 3rd CLEANER CONCENTRATE VERTICAL PUMP No.2               | 250            | 24.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-142      | PYRITE ROUGHER CONCENTRATE VERTICAL PUMP No.1               | 250            | 55.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-143      | PYRITE ROUGHER CONCENTRATE VERTICAL PUMP No.2               | 250            | 55.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-145      | PYRITE ROUGHER CONCENTRATE VERTICAL PUMP No.3               | 250            | 55.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-146      | PYRITE ROUGHER CONCENTRATE VERTICAL PUMP No.4               | 250            | 55.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-171      | PYRITE ROUGHER CONCENTRATE REGRIND CYCLONE FEED PUMP (VF    | 400 x 350      | 500.0      | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-172      | PYRITE ROUGHER CONCENTRATE REGRIND CYCLONE FEED PUMP (VF    | 400 x 350      | 500.0      | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-201      | GOLD-PYRITE CONCENTRATE PUMP No.1                           |                |            | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-202      | GOLD-PYRITE CONCENTRATE PUMP No.2                           |                |            | ☐         | ✓        |          |          |       | PFD     |
| E20-PSL-204      | COPPER/PYRITE SEPARATION CONCENTRATE VERTICAL PUMP No.1     | 250            | 24.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSL-205      | COPPER/PYRITE SEPARATION CONCENTRATE VERTICAL PUMP No.2     | 250            | 24.0       | ☐         | ✓        |          |          |       | PFD     |
| E20-PSU-027      | Cu ROUGHER FLOTATION SUMP PUMP No.1                         | 100            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-028      | Cu ROUGHER FLOTATION SUMP PUMP No.2                         | 100            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-035      | REGRIND AREA SUMP PUMP                                      | 100            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-079      | Cu 1st CLEANER SUMP PUMP                                    | 100            | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-094      | Cu 2nd CLEANER SUMP PUMP                                    | 100            | 20.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-166      | PYRITE FLOTATION TAILINGS SUMP PUMP No.2                    | 150            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-167      | PYRITE FLOTATION TAILINGS SUMP PUMP No.1                    | 150            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-PSU-206      | PYRITE REGRIND AREA SUMP PUMP                               | 150            | 30.0       | ✓         | ☐        |          |          |       | PFD     |
| E20-SMP-222      | PYRITE ROUGHER CONCENTRATE REGRIND SAMPLER                  |                | 2.0        | ✓         | ☐        |          |          |       |         |
| E20-SMP-311      | COPPER ROUGHER CONCENTRATE SAMPLER No.1                     |                | 2.0        | ✓         | ☐        |          |          |       |         |

| EQUIPMENT NUMBER            | DESCRIPTION   | EQUIPMENT SIZE        | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|-----------------------------|---|-----------------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E20-SMP-312                 | COPPER ROUGHER CONCENTRATE SAMPLER No.2                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-313                 | COPPER ROUGHER CONCENTRATE SAMPLER No.3                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-314                 | COPPER ROUGHER CONCENTRATE SAMPLER No.4                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-321                 | COPPER ROUGHER TAILINGS SAMPLER No.1                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-322                 | COPPER ROUGHER TAILINGS SAMPLER No.2                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-323                 | COPPER ROUGHER TAILINGS SAMPLER No.3                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-324                 | COPPER ROUGHER TAILINGS SAMPLER No.4                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-331                 | Cu ROUGHER CONCENTRATE REGRIND SAMPLER                  |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-335                 | Cu 1st CLEANER CONCENTRATE SAMPLER                      |                       | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-336                 | Cu 1st CLEANER SCAVENGER TAILINGS SAMPLER               |                       | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-337                 | Cu 2nd CLEANER CONCENTRATE SAMPLER                      |                       | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-338                 | Cu 3rd CLEANER CONCENTRATE SAMPLER                      |                       | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-361                 | PYRITE ROUGHER CONCENTRATE SAMPLER No.1                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-362                 | PYRITE ROUGHER CONCENTRATE SAMPLER No.2                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-363                 | PYRITE ROUGHER CONCENTRATE SAMPLER No.3                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-364                 | PYRITE ROUGHER CONCENTRATE SAMPLER No.4                 |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-365                 | PYRITE ROUGHER TAILINGS SAMPLER No.1                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-366                 | PYRITE ROUGHER TAILINGS SAMPLER No.2                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-367                 | PYRITE ROUGHER TAILINGS SAMPLER No.3                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-SMP-368                 | PYRITE ROUGHER TAILINGS SAMPLER No.4                    |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E20-TNK-076                 | Cu 1st CLEANER CONCENTRATE TANK                         |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-085                 | Cu 1st CLEANER SCAVENGER CONCENTRATE TANK               |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-095                 | Cu 2nd CLEANER CONCENTRATE TANK                         |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-108                 | Cu 3rd CLEANER CONCENTRATE TANK                         |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-141                 | PYRITE ROUGHER CONCENTRATE TANK No.1                    |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-144                 | PYRITE ROUGHER CONCENTRATE TANK No.2                    |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E20-TNK-203                 | COPPER/PYRITE SEPARATION CONCENTRATE TANK               |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| FLOTATION TOTAL kW:         |   |                       | 35931.7    | 32279.2                             |                                     |          |          |       |         |
| <b>Area: E30 - LEACHING</b> |   |                       |            |                                     |                                     |          |          |       |         |
| E30-AGI-005                 | AERATION TANK AGITATOR No.1                             |                       | 40.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-006                 | AERATION TANK AGITATOR No.2                             |                       | 40.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-007                 | AERATION TANK AGITATOR No.3                             |                       | 40.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-008                 | AERATION TANK AGITATOR No.4                             |                       | 40.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-021                 | CIL TANK AGITATOR No.1                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-022                 | CIL TANK AGITATOR No.2                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-023                 | CIL TANK AGITATOR No.3                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-024                 | CIL TANK AGITATOR No.4                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-025                 | CIL TANK AGITATOR No.5                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-026                 | CIL TANK AGITATOR No.6                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-027                 | CIL TANK AGITATOR No.7                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-028                 | CIL TANK AGITATOR No.8                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-029                 | CIL TANK AGITATOR No.9                                  |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AGI-030                 | CIL TANK AGITATOR No.10                                 |                       | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AIC-045                 | CIL AIR COMPRESSOR (OIL FREE) No.1                      | 3500 Nm³/h @ 1000kPag | 360.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AIC-046                 | CIL AIR COMPRESSOR (OIL FREE) No.2                      | 3500 Nm³/h @ 1000kPag | 360.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AIC-047                 | CIL AIR COMPRESSOR (OIL FREE) No.3                      | 3500 Nm³/h @ 1000kPag | 360.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AIC-048                 | CIL AIR COMPRESSOR (OIL FREE) No.4                      | 3500 Nm³/h @ 1000kPag | 360.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-AIR-050                 | CIL AIR RECEIVER  | 38 m³                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-BIN-062                 | SAFETY SCREEN OVERSIZE BIN                              |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-CRN-044                 | CIL LEACH AREA CRANE                                    | 20t                   | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-FIL-049                 | CIL AIR FILTER  |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PBX-038                 | CIL RESIDUE PUMPBOX                                     |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSL-018                 | CIL FEED THICKENER OVERFLOW PUMP No.1                   | 200 x 150             | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSL-019                 | CIL FEED THICKENER OVERFLOW PUMP No.2                   | 200 x 150             | 90.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E30-PSL-039                 | CIL RESIDUE PUMP No.1                                   | 300 x 250             | 80.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSL-040                 | CIL RESIDUE PUMP No.2                                   | 300 x 250             | 80.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E30-PSL-042                 | CLEANER TAILINGS CIL FEED THICKENER UNDERFLOW PUMP No.1 | 150 x 100             | 65.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSL-043                 | CLEANER TAILINGS CIL FEED THICKENER UNDERFLOW PUMP No.2 | 150 x 100             | 65.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER            | DESCRIPTION   | EQUIPMENT SIZE  | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|-----------------------------|---|-----------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E30-PSL-092                 | PYRITE ROUGHER CIL FEED THICKENER UNDERFLOW PUMP No.1 | 150 x 100       | 65.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSL-093                 | PYRITE ROUGHER CIL FEED THICKENER UNDERFLOW PUMP No.2 | 150 x 100       | 65.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E30-PSU-032                 | CIL AREA SUMP PUMP                                    | 150             | 20.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSU-033                 | AERATION AREA SUMP PUMP                               | 100             | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSU-034                 | SAFETY SCREEN AREA SUMP PUMP                          | 100             | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-PSU-035                 | CIL THICKENER AREA SUMP PUMP                          | 100             | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-SCN-009                 | LOADED CARBON SCREEN No.1                             | 1500 x 2000     | 4.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-SCN-010                 | LOADED CARBON SCREEN No.2                             | 1500 x 2000     | 4.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-SCN-061                 | CARBON SAFETY SCREEN                                  | 3000 x 4000     | 4.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-SMP-071                 | CIL FEED SAMPLER                                      |                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E30-SMP-072                 | CIL RESIDUE SAMPLER                                   |                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E30-SYS-081                 | CIL LEACHING AREA CYANIDE MONITOR SYSTEM              |                 | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E30-THK-041                 | CLEANER TAILINGS CIL FEED THICKENER                   | 35000 D         | 38.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-THK-091                 | PYRITE ROUGHER CIL FEED THICKENER                     | 35000 D         | 38.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-001                 | AERATION TANK No.1                                    | 9000 D x 10000  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-002                 | AERATION TANK No.2                                    | 9000 D x 10000  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-003                 | AERATION TANK No.3                                    | 9000 D x 10000  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-004                 | AERATION TANK No.4                                    | 9000 D x 10000  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-017                 | CIL FEED THICKENER OVERFLOW STANDPIPE                 |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-051                 | CIL TANK No.1   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-052                 | CIL TANK No.2   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-053                 | CIL TANK No.3   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-054                 | CIL TANK No.4   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-055                 | CIL TANK No.5   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-056                 | CIL TANK No.6   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-057                 | CIL TANK No.7   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-058                 | CIL TANK No.8   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-059                 | CIL TANK No.9   | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E30-TNK-060                 | CIL TANK No.10  | 15000 D x 15000 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| LEACHING TOTAL kW:          |   |                 | 3293.0     | 2993.0                              |                                     |          |          |       |         |
| <b>Area: E40 - REFINERY</b> |   |                 |            |                                     |                                     |          |          |       |         |
| E40-AGI-089                 | CARBON ATTRITION TANK AGITATOR                        |                 | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-BIN-071                 | REACTIVATION KILN FEED BIN                            |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-BIN-080                 | FINE CARBON COLLECTOR BIN                             |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-BIN-101                 | REACTIVATED CARBON STORAGE BIN                        |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-CNV-073                 | REACTIVATION KILN SCREW CONVEYOR                      |                 | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-COL-010                 | ELUTION COLUMN No.1                                   |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PSF     |
| E40-COL-011                 | ELUTION COLUMN No.2                                   |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PSF     |
| E40-COL-061                 | SMELTING FURNACE DUST COLLECTOR                       |                 |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-CRN-111                 | CARBON ELUTION AREA CRANE                             | 10t             | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-CRN-112                 | CARBON REGENERATION AREA CRANE                        | 10t             | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-EWC-040                 | ELECTROWINNING CELL No.1                              |                 | 18.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-EWC-041                 | ELECTROWINNING CELL No.2                              |                 | 18.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-003                 | ACID WASH TANK No.1 VENTILATION FAN                   |                 | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-004                 | ACID WASH TANK No.2 VENTILATION FAN                   |                 | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-045                 | ELECTROWINNING CELLS VENTILATION FAN No.1             |                 | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-046                 | ELECTROWINNING CELLS VENTILATION FAN No.2             |                 | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-056                 | DRYING OVEN EXHAUST FAN                               |                 | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-062                 | SMELTING FURNACE DUST COLLECTOR FAN                   |                 | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FAN-074                 | REACTIVATION KILN EXHAUST FAN                         |                 | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FIL-052                 | ELECTROWINNING SLUDGE FILTER PRESS                    |                 | 5.0        | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FIL-079                 | FINE CARBON FILTER PRESS                              |                 | 2.0        | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-FUR-058                 | INDUCTION SMELTING FURNACE                            |                 | 125.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEA-014                 | ELUTION COLUMN No.1 SOLUTION HEATER                   |                 | 400.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEA-015                 | ELUTION COLUMN No.2 SOLUTION HEATER                   |                 | 400.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEX-016                 | BOILER No.1 HEAT EXCHANGER                            |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEX-017                 | BOILER No.2 HEAT EXCHANGER                            |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEX-020                 | ELUTION COLUMN No.1 RECOVERY HEAT EXCHANGER No.1      |                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |

| EQUIPMENT NUMBER                        | DESCRIPTION                                      | EQUIPMENT SIZE        | POWER (kW)    | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|--|-----------------------|---------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E40-HEX-021                             | ELUTION COLUMN No.1 RECOVERY HEAT EXCHANGER No.2 |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEX-038                             | ELUTION COLUMN No.2 RECOVERY HEAT EXCHANGER No.1 |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-HEX-039                             | ELUTION COLUMN No.2 RECOVERY HEAT EXCHANGER No.2 |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-KLN-055                             | DRYING OVEN                                      |                       | 5.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-KLN-072                             | REACTIVATION KILN                                |                       | 370.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-MIX-057                             | FLUX MIXER                                       |                       | 1.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PBX-120                             | ELECTROWINNING DISCHARGE PUMPBOX                 |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       |         |
| E40-PSL-005                             | ACID WASH TANK No.1 DRAIN PUMP                   | 50 x 38               | 1.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-006                             | ACID WASH TANK No.2 DRAIN PUMP                   | 50 x 38               | 1.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-007                             | ACID WASH TANK No.1 CARBON TRANSFER PUMP         | 200                   | 5.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-008                             | ACID WASH TANK No.2 CARBON TRANSFER PUMP         | 150                   | 5.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-012                             | ELUTION COLUMN No.1 ELUTED CARBON TRANSFER PUMP  | 150                   | 7.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-013                             | ELUTION COLUMN No.2 ELUTED CARBON TRANSFER PUMP  | 150                   | 7.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-018                             | ELUTION COLUMN No.1 SOLUTION DRAIN PUMP          | 75 x 50               | 7.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-019                             | ELUTION COLUMN No.2 SOLUTION DRAIN PUMP          | 75 x 50               | 7.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-026                             | BARREN SOLUTION PUMP No.1                        | 75 x 50               | 7.5           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-027                             | BARREN SOLUTION PUMP No.2                        | 75 x 50               | 7.5           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E40-PSL-029                             | ELECTROWINNING CELLS FEED PUMP No.1              | 50 x 38               | 2.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-030                             | ELECTROWINNING CELLS FEED PUMP No.2              | 50 x 38               | 2.0           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E40-PSL-032                             | ACID WASH RECIRCULATING PUMP                     | 75 x 50               | 2.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-051                             | ELECTROWINNING SLUDGE FILTER PRESS FEED PUMP     | 38 x 25               | 1.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-078                             | FINE CARBON FILTER FEED PUMP                     | 50 x 38               | 5.6           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-086                             | CARBON QUENCH TANK DISCHARGE PUMP No.1           | 200                   | 10.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-087                             | CARBON QUENCH TANK DISCHARGE PUMP No.2           | 200                   | 10.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E40-PSL-090                             | CARBON ATTRITION TRANSFER PUMP                   |                       | 5.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-102                             | REACTIVATED CARBON TRANSFER PUMP No.1            | 200                   | 10.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSL-103                             | REACTIVATED CARBON TRANSFER PUMP No.2            | 200                   | 10.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E40-PSL-121                             | ELECTROWINNING DISCHARGE PUMP No.1               |                       | 2.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E40-PSL-122                             | ELECTROWINNING DISCHARGE PUMP No.2               |                       | 2.0           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       |         |
| E40-PSU-033                             | ACID WASH AREA SUMP PUMP                         | 100                   | 15.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSU-034                             | ELECTROWINNING AREA SUMP PUMP                    | 100                   | 10.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSU-035                             | ELUTION AREA SUMP PUMP                           | 100                   | 15.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSU-036                             | REACTIVATION AREA SUMP PUMP                      | 100                   | 10.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-PSU-037                             | REFINERY AREA SUMP PUMP                          | 100                   | 10.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-SAF-060                             | BUILLION SAFE                                    |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-SCN-070                             | ELUTED CARBON DEWATERING SCREEN                  | 1000 x 2000           | 2.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-SCN-100                             | REACTIVATED CARBON SIZING/DEWATERING SCREEN      | 1000 x 2000           | 2.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-001                             | ACID WASH TANK No.1                              |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-002                             | ACID WASH TANK No.2                              |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-025                             | BARREN SOLUTION TANK                             | 3000 D x 5000         |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-028                             | PREGNANT SOLUTION TANK                           | 2000 D x 3000         |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-031                             | ACID WASH CIRCULATING TANK                       | 3000 D x 5000         |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-050                             | CATHODE SLUDGE TANK                              |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-075                             | FINE CARBON TANK                                 |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-085                             | CARBON QUENCH TANK                               |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E40-TNK-088                             | CARBON ATTRITION TANK                            |                       |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| <b>REFINERY TOTAL kW:</b>               |  |                       | <b>1587.6</b> | <b>1549.1</b>                       |                                     |          |          |       |         |
| <b>Area: E50 - CONCENTRATE HANDLING</b> |  |                       |               |                                     |                                     |          |          |       |         |
| E50-AGI-111                             | COPPER CONCENTRATE STOCK TANK AGITATOR           |                       | 5.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AGI-112                             | MOLYBDENUM CONCENTRATE LEACH TANK AGITATOR       |                       | 1.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AIC-081                             | DRYING AIR COMPRESSOR No.1                       | 2500 Nm³/h @ 800kPag  | 220.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AIC-082                             | DRYING AIR COMPRESSOR No.2                       | 2500 Nm³/h @ 800kPag  | 220.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-AIC-083                             | PRESSING AIR COMPRESSOR No.1                     | 1000 Nm³/h @ 1000kPag | 150.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AIC-084                             | PRESSING AIR COMPRESSOR No.2                     | 1000 Nm³/h @ 1000kPag | 150.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-AID-201                             | CONCENTRATE AREA AIR DRYER                       | 850 Nm³/h @ 860kPag   |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AIR-121                             | CONCENTRATE DRYING AIR RECEIVER                  | 30 m³                 |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-AIR-122                             | PRESSING AIR RECEIVER                            | 3 m³                  |               | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-BIN-131                             | MOLYBDENUM CONCENTRATE STORAGE BIN               |                       |               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                      | DESCRIPTION  | EQUIPMENT SIZE    | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|--|-------------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E50-CNV-021   | MOLYBDENUM CONCENTRATE BELT CONVEYOR                       | 610 W x 120000 L  | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CNV-025   | COPPER CONCENTRATE BELT CONVEYOR No.1                      | 762 W x 10000 L   | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CNV-026   | COPPER CONCENTRATE BELT CONVEYOR No.2                      | 762 W x 10000 L   | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CNV-028   | COPPER CONCENTRATE LOADOUT CONVEYOR                        | 762 W x 120000 L  | 22.4       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CNV-182   | COPPER CONCENTRATE AREA DUST COLLECTOR SCREW CONVEYOR      |                   | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-COL-011   | MOLYBDENUM DRYER DUST COLLECTOR                            |                   | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-COL-012   | MOLYBDENUM CONCENTRATE STORAGE BIN DUST COLLECTOR          |                   | 3.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-COL-181   | COPPER CONCENTRATE AREA DUST COLLECTOR WITH EXHAUST FAN    | 20,000 CFM        | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CRN-001   | COPPER CONCENTRATE DEWATERING AREA CRANE                   | 10t               | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-CRN-002   | MOLYBDENUM CONCENTRATE DEWATERING AREA CRANE               | 5t                | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-DRY-141   | MOLYBDENUM CONCENTRATE DRYER                               |                   | 20.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-FIL-091   | COPPER CONCENTRATE PRESSURE FILTER No.1                    | 160m <sup>2</sup> | 90.0       | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-FIL-092   | COPPER CONCENTRATE PRESSURE FILTER No.2                    | 160m <sup>2</sup> | 90.0       | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-FIL-095   | MOLYBDENUM CONCENTRATE FILTER                              | 4m <sup>2</sup>   | 4.0        | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PBX-105   | COPPER FILTER FILTRATE COLLECTION PUMPBOX                  |                   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PBX-106   | MOLYBDENUM FILTER FILTRATE COLLECTION PUMPBOX              |                   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-054   | COPPER FILTER FEED PIPE FLUSH PUMP No.1                    | 50 x 37           | 20.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-055   | COPPER FILTER FEED PIPE FLUSH PUMP No.2                    | 50 x 37           | 20.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-056   | COPPER THICKENER OVERFLOW PUMP No.1                        | 50 x 37           | 3.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-057   | COPPER THICKENER OVERFLOW PUMP No. 2                       | 50 x 37           | 3.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-059   | COPPER CONCENTRATE FILTER No.1 HIGH PRESSURE FEED PUMP No. | 100 x 75          | 85.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-060   | COPPER CONCENTRATE FILTER No.1 HIGH PRESSURE FEED PUMP No. | 100 x 75          | 85.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-061   | COPPER THICKENER UNDERFLOW PUMP (VFD) No.1                 | 50 x 37           | 3.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-062   | COPPER THICKENER UNDERFLOW PUMP (VFD) No.2                 | 50 x 37           | 3.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-064   | MOLYBDENUM THICKENER UNDERFLOW PUMP (VFD) No.1             |                   | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-065   | MOLYBDENUM THICKENER UNDERFLOW PUMP (VFD) No.2             |                   | 2.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-066   | MOLYBDENUM THICKENER OVERFLOW PUMP                         | 25 x 25           | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-067   | MOLYBDENUM CONCENTRATE FILTER FEED PUMP No. 1              | 25 x 25           | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-068   | MOLYBDENUM CONCENTRATE FILTER FEED PUMP No. 2              | 25 x 25           | 5.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSL-070   | COPPER FILTER FILTRATE COLLECTION PUMP                     |                   | 4.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-071   | MOLYBDENUM FILTER FILTRATE COLLECTION PUMP                 | 25 x 25           | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-072   | COPPER CONCENTRATE FILTER No.2 HIGH PRESSURE FEED PUMP No. | 100 x 75          | 85.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSL-073   | COPPER CONCENTRATE FILTER No.2 HIGH PRESSURE FEED PUMP No. | 100 x 75          | 85.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E50-PSU-058   | CONCENTRATE LOADOUT SUMP PUMP                              | 50                | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSU-063   | COPPER CONCENTRATE HANDLING SUMP PUMP                      |                   | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-PSU-069   | MOLYBDENUM CONCENTRATE HANDLING SUMP PUMP                  |                   | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-SCB-031   | COPPER CONCENTRATE BELT SCALE                              |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-SCL-152   | MOLYBDENUM CONCENTRATE SCALE                               |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-SCL-153   | TRUCK WEIGHT SCALE   |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-SMP-111   | COPPER CONCENTRATE SAMPLER                                 |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E50-SMP-347   | MOLYBDENUM THICKENER UNDERFLOW SAMPLER                     |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E50-SMP-348   | MOLYBDENUM CONCENTRATE FILTER FEED SAMPLER                 |                   | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E50-THK-041   | MOLYBDENUM CONCENTRATE THICKENER                           | 2000 D            | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-THK-042   | COPPER CONCENTRATE THICKENER                               | 15000 D           | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-TNK-101   | COPPER CONCENTRATE STOCK TANK                              | 8000 D x 7000 H   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-TNK-102   | MOLYBDENUM CONCENTRATE LEACH TANK                          | 2000 D x 2000 H   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-TNK-103   | MOLYBDENUM THICKENER OVERFLOW STANDPIPE                    |                   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-TNK-104   | COPPER CONCENTRATE OVERFLOW STANDPIPE                      |                   |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E50-VLV-183   | COPPER CONCENTRATE AREA DUST COLLECTOR ROTARY VALVE        |                   | 0.7        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| CONCENTRATE HANDLING TOTAL kW:                        |  |                   | 1492.9     | 735.9                               |                                     |          |          |       |         |
| <b>Area: E60 - CYANIDE RECOVERY &amp; DESTRUCTION</b> |  |                   |            |                                     |                                     |          |          |       |         |
| E60-AGI-030   | CYANIDE DESTRUCTION TANK AGITATOR No.1                     |                   | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-031   | CYANIDE DESTRUCTION TANK AGITATOR No.2                     |                   | 31.5       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-032   | CYANIDE DESTRUCTION TANK AGITATOR No.3                     |                   | 31.5       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-033   | CYANIDE DESTRUCTION TANK AGITATOR No.4                     |                   | 31.5       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-061   | CYANIDE ABSORPTION TANK AGITATOR                           |                   | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-081   | CYANIDE RECOVERY ACIDIFICATION TANK AGITATOR               |                   | 7.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-085   | COPPER/ZINC SULFURICATION TANK AGITATOR                    |                   | 7.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |

| EQUIPMENT NUMBER                         | DESCRIPTION  | EQUIPMENT SIZE        | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|--|--|-----------------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E60-AGI-097                              | ALKALIZATION TANK AGITATOR                             |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AGI-136                              | SCRUBBER SYSTEM NEUTRALIZATION TANK AGITATOR           |                       | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-AIC-111                              | CYANIDE DESTRUCTION AIR COMPRESSOR No.1                | 1500 Nm³/h @ 1000kPag | 450.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-AIC-112                              | CYANIDE DESTRUCTION AIR COMPRESSOR No.2                | 1500 Nm³/h @ 1000kPag | 450.0      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-AIR-118                              | CYANIDE DESTRUCTION AIR RECEIVER                       | 12 m³                 |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-CRN-045                              | CYANIDE DESTRUCTION AREA CRANE                         | 20t                   | 30.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-EXF-139                              | SCRUBBER SYSTEM EXHAUST FAN                            |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-FAN-051                              | VOLATILIZATION TOWER No.2 FAN                          |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-FAN-052                              | VOLATILIZATION TOWER No.1 FAN                          |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-FAN-053                              | CYANIDE ABSORPTION TANK FAN                            |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-FIL-075                              | VOLATILIZATION THICKENER FILTER PRESS                  |                       | 2.0        | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-FIL-115                              | CYANIDE DESTRUCTION AIR FILTER                         |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-010                              | CIL RESIDUE WASHING THICKENER No.1 UNDERFLOW PUMP No.1 | 250 x 200             | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-011                              | CIL RESIDUE WASHING THICKENER No.1 UNDERFLOW PUMP No.2 | 250 x 200             | 90.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-013                              | CIL RESIDUE WASHING THICKENER No.2 OVERFLOW PUMP No.1  | 300 x 250             | 106.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-014                              | CIL RESIDUE WASHING THICKENER No.2 OVERFLOW PUMP No.2  | 300 x 250             | 106.0      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-016                              | CIL RESIDUE WASHING THICKENER No.2 UNDERFLOW PUMP No.1 | 250 x 200             | 90.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-017                              | CIL RESIDUE WASHING THICKENER No.2 UNDERFLOW PUMP No.2 | 250 x 200             | 90.0       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-062                              | VOLATILIZATION TOWER FEED PUMP No.1                    | 350 x 300             | 200.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-063                              | VOLATILIZATION TOWER FEED PUMP No.2                    | 350 x 300             | 200.0      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-071                              | VOLATILIZATION THICKENER OVERFLOW PUMP                 | 350 x 300             | 145.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-072                              | VOLATILIZATION THICKENER UNDERFLOW PUMP                | 75 x 50               | 8.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-082                              | CYANIDE SOLUTION PUMP No.1                             | 50 x 38               | 5.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-083                              | CYANIDE SOLUTION PUMP No.2                             | 50 x 38               | 5.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-091                              | VOLATILIZATION TOWER No.1 UNDERFLOW PUMP No.1          | 350 x 300             | 200.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-092                              | VOLATILIZATION TOWER No.1 UNDERFLOW PUMP No.2          | 350 x 300             | 200.0      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-098                              | ALKALIZATION TANK PUMP                                 | 350 x 300             | 85.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-123                              | CIL RESIDUE WASHING THICKENER No.1 OVERFLOW PUMP No.1  | 300 x 250             | 106.0      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-PSL-124                              | CIL RESIDUE WASHING THICKENER No.1 OVERFLOW PUMP No.2  | 300 x 250             | 106.0      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E60-PSL-131                              | SCRUBBER SYSTEM DISCHARGE PUMP No.1                    |                       |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-PSL-132                              | SCRUBBER SYSTEM DISCHARGE PUMP No.2                    |                       |            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       |         |
| E60-PSL-133                              | SCRUBBER SYSTEM RECYCLE PUMP No.1                      |                       |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-PSL-134                              | SCRUBBER SYSTEM RECYCLE PUMP No.2                      |                       |            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       |         |
| E60-PSU-046                              | CYANIDE DESTRUCTION AREA SUMP PUMP                     | 100                   | 15.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-SCR-130                              | CYANIDE DESTRUCTION AREA SCRUBBER                      |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       |         |
| E60-SMP-151                              | CYANIDE WASHING SAMPLER                                |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-SMP-152                              | CYANIDE DESTRUCTION SAMPLER                            |                       | 2.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-SMP-153                              | CYANIDE RECOVERY SAMPLER                               |                       | 0.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-SYS-100                              | VACUUM SYSTEM  |                       | 50.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-SYS-161                              | CYANIDE DESTRUCTION AREA CYANIDE MONITOR SYSTEM        |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-SYS-162                              | CYANIDE DESTRUCTION AREA SO2 MONITOR SYSTEM            |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-SYS-163                              | CYANIDE RECOVERY AREA CYANIDE MONITOR SYSTEM           |                       | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E60-THK-001                              | CIL RESIDUE WASHING THICKENER No.1                     | 40000 D               | 45.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-THK-002                              | CIL RESIDUE WASHING THICKENER No.2                     | 40000 D               | 45.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-THK-070                              | VOLATILIZATION THICKENER                               | 10000 D               | 10.0       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-015                              | CIL RESIDUE WASHING THICKENER No.2 OVERFLOW STANDPIPE  |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-020                              | CYANIDE DESTRUCTION TANK No.1 (INITIAL)                | 6000 D x 6000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-021                              | CYANIDE DESTRUCTION TANK No.2                          | 11000 D x 12000 H     |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-022                              | CYANIDE DESTRUCTION TANK No.3                          | 11000 D x 12000 H     |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-023                              | CYANIDE DESTRUCTION TANK No.4                          | 7000 D x 7600 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-060                              | CYANIDE ABSORPTION TANK                                | 1000 D x 3000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-065                              | VOLATILIZATION TOWER No.1                              | 3000 D x 8000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-067                              | VOLATILIZATION TOWER No.2                              | 3000 D x 8000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-080                              | CYANIDE RECOVERY ACIDIFICATION TANK                    | 2000 D x 2000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-084                              | COPPER/ZINC SULFURICATION TANK                         | 2000 D x 2000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-096                              | ALKALIZATION TANK                                      | 1000 D x 1000 H       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-125                              | CIL RESIDUE WASHING THICKENER No.1 OVERFLOW STANDPIPE  |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E60-TNK-135                              | SCRUBBER SYSTEM NEUTRALIZATION TANK                    |                       |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       |         |
| CYANIDE RECOVERY & DESTRUCTION TOTAL kW: |  |                       | 3073.0     | 1824.0                              |                                     |          |          |       |         |

| EQUIPMENT NUMBER                 | DESCRIPTION                                     | EQUIPMENT SIZE | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|----------------------------------|---|----------------|------------|-----------|----------|----------|----------|-------|---------|
| <b>Area: E70 - REAGENTS AREA</b> |   |                |            |           |          |          |          |       |         |
| E70-AGI-015                      | FLOCCULANT MIXING TANK AGITATOR                 |                | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-034                      | TEST REAGENT MIXING TANK AGITATOR               |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-054                      | PAX MIXING TANK AGITATOR                        |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-179                      | LIME HOLDING TANK AGITATOR                      |                | 10.0       | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-258                      | SODIUM HYDROSULPHIDE MIXING TANK AGITATOR       |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-298                      | CYANIDE MIXING TANK AGITATOR                    |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-418                      | MBS MIXING TANK AGITATOR                        |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-498                      | SODIUM HYDROXIDE MIXING TANK AGITATOR           |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-538                      | CuSO4.5H2O MIXING TANK AGITATOR                 |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-AGI-734                      | TEST REAGENT SYSTEM No.2 MIXING TANK AGITATOR   |                | 3.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-BIN-189                      | LIME SYSTEM BALL BIN                            |                |            | ☐         | ☐        |          |          |       | PFD     |
| E70-BLO-003                      | FLOCCULANT BLOWER                               |                | 1.9        | ✓         | ☐        |          |          |       | PFD     |
| E70-CNV-002                      | FLOCCULANT SCREW CONVEYOR                       |                | 1.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-CNV-162                      | LIME DISCHARGE SCREW CONVEYOR                   |                | 1.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-COL-169                      | LIME SILO DUST COLLECTOR                        |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-COL-196                      | LIME AREA DUST COLLECTOR                        |                | 5.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-CRN-035                      | REAGENTS AREA CRANE No.1                        | 5t             | 20.0       | ✓         | ☐        |          |          |       | PFD     |
| E70-CRN-036                      | REAGENTS AREA CRANE No.2                        | 5t             | 20.0       | ✓         | ☐        |          |          |       | PFD     |
| E70-CYC-167                      | LIME SLAKER MILL CYCLONE                        |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EDU-004                      | FLOCCULANT EDUCTOR                              |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-039                      | TEST REAGENT SYSTEM No.1 BAG BREAKER & FEEDER   |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-059                      | PAX AREA BAG BREAKER & FEEDER                   |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-081                      | MIBC BULK CONTAINER                             |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-188                      | LIME SYSTEM BALL CHANGE KIBBLE                  |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-257                      | SODIUM HYDROSULPHIDE BAG BREAKER & FEEDER       |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-297                      | CYANIDE BAG BREAKER & FEEDER                    |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-331                      | A208 BULK CONTAINER                             |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-417                      | MBS BAG BREAKER & FEEDER                        |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-497                      | SODIUM HYDROXIDE BAG BREAKER & FEEDER           |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-537                      | CuSO4.5H2O BAG BREAKER & FEEDER                 |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-611                      | SULPHURIC ACID BULK CONTAINER                   |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EQP-739                      | TEST REAGENT SYSTEM No.2 BAG BREAKER & FEEDER   |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-048                      | TEST REAGENT SYSTEM No.1 EXHAUST FAN            |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-068                      | PAX AREA EXHAUST FAN                            |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-256                      | SODIUM HYDROSULPHIDE AREA EXHAUST FAN           |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-296                      | CYANIDE AREA EXHAUST FAN                        |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-416                      | MBS AREA EXHAUST FAN                            |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-496                      | SODIUM HYDROXIDE AREA EXHAUST FAN               |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-536                      | CuSO4.5H2O AREA EXHAUST FAN                     |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-EXF-748                      | TEST REAGENT SYSTEM No.2 EXHAUST FAN            |                | 2.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-FAN-001                      | BUILDING SERVICES EXHAUST FAN REAGENTS          | 1200 CFM       | 0.7        | ✓         | ☐        |          |          |       |         |
| E70-FAN-002                      | BUILDING SERVICES EXHAUST FAN REAGENTS          | 1200 CFM       | 0.7        | ✓         | ☐        |          |          |       |         |
| E70-FAN-003                      | BUILDING SERVICES EXHAUST FAN REAGENTS          | 1200 CFM       | 0.7        | ✓         | ☐        |          |          |       |         |
| E70-FAN-004                      | BUILDING SERVICES EXHAUST FAN REAGENTS          | 1200 CFM       | 0.7        | ✓         | ☐        |          |          |       |         |
| E70-HOI-191                      | REAGENTS AREA HOIST No.1                        | 1t             | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-HOI-192                      | REAGENTS AREA HOIST No.2                        | 1t             | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-HOI-193                      | REAGENTS AREA HOIST No.3                        | 1t             | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-HOI-194                      | REAGENTS AREA HOIST No.4                        | 1t             | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-HOI-195                      | REAGENTS AREA HOIST No.5                        | 1t             | 1.5        | ✓         | ☐        |          |          |       | PFD     |
| E70-HPR-001                      | FLOCCULANT HOPPER                               |                |            | ✓         | ☐        |          |          |       | PFD     |
| E70-HTR-001                      | BUILDING SERVICES ELECTRIC UNIT HEATER REAGENTS | 10kW           | 10.2       | ✓         | ☐        |          |          |       |         |
| E70-HTR-002                      | BUILDING SERVICES ELECTRIC UNIT HEATER REAGENTS | 10kW           | 10.2       | ✓         | ☐        |          |          |       |         |
| E70-HTR-003                      | BUILDING SERVICES ELECTRIC UNIT HEATER REAGENTS | 10kW           | 10.2       | ✓         | ☐        |          |          |       |         |
| E70-HTR-004                      | BUILDING SERVICES ELECTRIC UNIT HEATER REAGENTS | 10kW           | 10.2       | ✓         | ☐        |          |          |       |         |
| E70-MIL-163                      | LIME SLAKING TOWER MILL                         |                | 37.3       | ✓         | ☐        |          |          |       | PFD     |
| E70-PBX-164                      | LIME SLAKER MILL CYCLONE PUMPBOX                |                |            | ☐         | ☐        |          |          |       | PFD     |
| E70-PMT-021                      | FLOCCULANT METERING PUMP No.1                   | 50 X 50        | 1.0        | ✓         | ☐        |          |          |       | PFD     |
| E70-PMT-022                      | FLOCCULANT METERING PUMP No.2                   | 50 X 50        | 1.0        | ✓         | ☐        |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER | DESCRIPTION                             | EQUIPMENT SIZE | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|------------------|---|----------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E70-PMT-023      | FLOCCULANT METERING PUMP No.3           | 50 X 50        | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-024      | FLOCCULANT METERING PUMP No.4           | 50 X 50        | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-025      | FLOCCULANT METERING PUMP No.5           | 50 X 50        | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-041      | TEST REAGENT SYSTEM No.1 METERING PUMP  |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-061      | PAX METERING PUMP No.1                  |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-062      | PAX METERING PUMP No.2                  |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-085      | MIBC TRANSFER PUMP                      |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-091      | MIBC METERING PUMP No.1                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-092      | MIBC METERING PUMP No.2                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-093      | MIBC METERING PUMP No.3                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-094      | MIBC METERING PUMP No.4                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-095      | MIBC METERING PUMP No.5                 |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-096      | MIBC METERING PUMP No.6                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-097      | MIBC METERING PUMP No.7                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-098      | MIBC METERING PUMP No.8                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-099      | MIBC METERING PUMP No.9                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-100      | MIBC METERING PUMP No.10                |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-101      | MIBC METERING PUMP No.11                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-141      | 3418A METERING PUMP No.1                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-142      | 3418A METERING PUMP No.2                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-143      | 3418A METERING PUMP No.3                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-144      | 3418A METERING PUMP No.4                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-145      | 3418A METERING PUMP No.5                |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-146      | 3418A METERING PUMP No.6                |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-221      | SODIUM SILICATE METERING PUMP No.1      |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-222      | SODIUM SILICATE METERING PUMP No.2      |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-261      | SODIUM HYDROSULPHIDE METERING PUMP No.1 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-262      | SODIUM HYDROSULPHIDE METERING PUMP No.2 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-263      | SODIUM HYDROSULPHIDE METERING PUMP No.3 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-264      | SODIUM HYDROSULPHIDE METERING PUMP No.4 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-265      | SODIUM HYDROSULPHIDE METERING PUMP No.5 |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-301      | CYANIDE METERING PUMP No.1              |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-302      | CYANIDE METERING PUMP No.2              |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-303      | CYANIDE METERING PUMP No.3              |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-304      | CYANIDE METERING PUMP No.4              |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-305      | CYANIDE METERING PUMP No.5              |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-306      | CYANIDE METERING PUMP No.6              |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-307      | CYANIDE METERING PUMP No.7              |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-335      | A208 TRANSFER PUMP                      |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-341      | A208 METERING PUMP No.1                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-342      | A208 METERING PUMP No.2                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-343      | A208 METERING PUMP No.3                 |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-344      | A208 METERING PUMP No.4                 |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-345      | A208 METERING PUMP No.5                 |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-381      | FUEL OIL METERING PUMP No.1             |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-382      | FUEL OIL METERING PUMP No.2             |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-383      | FUEL OIL METERING PUMP No.3             |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-384      | FUEL OIL METERING PUMP No.4             |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-385      | FUEL OIL METERING PUMP No.5             |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-421      | MBS METERING PUMP No.1                  |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-422      | MBS METERING PUMP No.2                  |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-461      | ANTI SCALANT METERING PUMP No.1         |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-462      | ANTI SCALANT METERING PUMP No.2         |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-463      | ANTI SCALANT METERING PUMP No.3         |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-464      | ANTI SCALANT METERING PUMP No.4         |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-465      | ANTI SCALANT METERING PUMP No.5         |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-501      | SODIUM HYDROXIDE METERING PUMP No.1     |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-502      | SODIUM HYDROXIDE METERING PUMP No.2     |                | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-541      | CuSO4.5H2O METERING PUMP No.1           |                | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |

| EQUIPMENT NUMBER | DESCRIPTION  | EQUIPMENT SIZE   | POWER (kW) | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|------------------|--|------------------|------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E70-PMT-542      | CuSO4.5H2O METERING PUMP No.2                              |                  | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-615      | SULPHURIC ACID TRANSFER PUMP                               |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-621      | SULPHURIC ACID METERING PUMP No.1                          |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-622      | SULPHURIC ACID METERING PUMP No.2                          |                  | 1.0        | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-661      | HYDROCHLORIC ACID METERING PUMP No.1                       |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-662      | HYDROCHLORIC ACID METERING PUMP No.2                       |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PMT-663      | HYDROCHLORIC ACID METERING PUMP No.3                       |                  | 1.0        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PMT-741      | TEST REAGENT SYSTEM No.2 METERING PUMP                     |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSL-165      | LIME SLAKER MILL CYCLONE FEED PUMP                         | 50 X 50          | 4.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSL-181      | LIME FEED PUMP No.1  | 38 X 25          | 2.5        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSL-182      | LIME FEED PUMP No.2  | 38 X 25          | 2.5        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E70-PSO-131      | 3418A TRANSFER PUMP  |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSO-219      | SODIUM SILICATE TRANSFER PUMP                              |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSO-379      | FUEL OIL TRANSFER PUMP                                     |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSO-459      | ANTI SCALANT TRANSFER PUMP                                 |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSO-659      | HYDROCHLORIC ACID TRANSFER PUMP                            |                  | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-019      | FLOCCULANT AREA SUMP PUMP                                  | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-058      | PAX AREA SUMP PUMP   | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-119      | MIBC AREA SUMP PUMP  | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-199      | LIME AREA SUMP PUMP  | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-295      | CYANIDE AREA SUMP PUMP                                     | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-369      | A208 AREA SUMP PUMP  | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-415      | MBS AREA SUMP PUMP   | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-535      | CuSO4.5H2O AREA SUMP PUMP                                  | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-PSU-639      | SULPHURIC ACID AREA SUMP PUMP                              | 50               | 1.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SIL-161      | LIME SILO  | 5600 D X 16000 H |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-049      | TEST REAGENT SYSTEM No.1 SHOWER & EYE WASH SAFETY STATION  |                  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-069      | PAX AREA SHOWER & EYE WASH SAFETY STATION                  |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-139      | 3418A AREA SHOWER & EYE WASH SAFETY STATION                |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-168      | LIME AREA SHOWER & EYE WASH SAFETY STATION                 |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-218      | SODIUM SILICATE AREA SHOWER & EYE WASH SAFETY STATION      |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-259      | SODIUM HYDROSULPHIDE AREA SHOWER & EYE WASH SAFETY STATION |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-299      | CYANIDE AREA SHOWER & EYE WASH SAFETY STATION              |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-378      | FUEL OIL AREA SHOWER & EYE WASH SAFETY STATION             |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-419      | MBS AREA SHOWER & EYE WASH SAFETY STATION                  |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-499      | SODIUM HYDROXIDE AREA SHOWER & EYE WASH SAFETY STATION     |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-539      | CuSO4.5H2O AREA SHOWER & EYE WASH SAFETY STATION           |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-SSW-749      | TEST REAGENT SYSTEM No.2 SHOWER & EYE WASH SAFETY STATION  |                  |            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-011      | FLOCCULANT MIXING TANK                                     | 1500 D x 2000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-012      | FLOCCULANT HOLDING TANK                                    | 3000 D x 3500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-031      | TEST REAGENT SYSTEM No.1 MIXING TANK                       | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-032      | TEST REAGENT SYSTEM No.1 HOLDING TANK                      | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-051      | PAX MIXING TANK  | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-052      | PAX HOLDING TANK   | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-108      | MIBC HOLDING TANK  | 1250 D x 2000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-132      | 3418A HOLDING TANK   | 1250 D x 2000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-180      | LIME HOLDING TANK  | 5000 D x 5000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-211      | SODIUM SILICATE HOLDING TANK                               |                  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-251      | SODIUM HYDROSULPHIDE MIXING TANK                           | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-260      | SODIUM HYDROSULPHIDE HOLDING TANK                          | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-291      | CYANIDE MIXING TANK  | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-300      | CYANIDE HOLDING TANK                                       | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-358      | A208 HOLDING TANK  | 1250 D x 2000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-371      | FUEL OIL HOLDING TANK                                      | 1200 D x 1500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-411      | MBS MIXING TANK  | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-420      | MBS HOLDING TANK   | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-451      | ANTI SCALANT HOLDING TANK                                  | 1000 D x 1000 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-491      | SODIUM HYDROXIDE MIXING TANK                               | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-500      | SODIUM HYDROXIDE HOLDING TANK                              | 1500 D x 2500 H  |            | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |





**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                      | DESCRIPTION   | EQUIPMENT SIZE   | POWER (kW)   | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|---------------------------------------|---|------------------|--------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E70-TNK-531                           | CuSO4.5H2O MIXING TANK                                  | 1500 D x 2500 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-540                           | CuSO4.5H2O HOLDING TANK                                 | 1500 D x 2500 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-638                           | SULPHURIC ACID HOLDING TANK                             | 1250 D x 2000 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-651                           | HYDROCHLORIC ACID HOLDING TANK                          | 1000 D x 1000 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-731                           | TEST REAGENT SYSTEM No.2 MIXING TANK                    | 1500 D x 2500 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E70-TNK-732                           | TEST REAGENT SYSTEM No.2 HOLDING TANK                   | 1500 D x 2500 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| REAGENTS AREA TOTAL kW:               |   |                  | <b>284.8</b> | <b>264.3</b>                        |                                     |          |          |       |         |
| <b>Area: E80 - MOLYBDENUM CIRCUIT</b> |   |                  |              |                                     |                                     |          |          |       |         |
| E80-AGI-101                           | COPPER/MOLYBDENUM CONDITIONER TANK AGITATOR             | 2000 D x 2,000 H | 5.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CEL-061                           | 1st MOLYBDENUM CLEANER COLUMN CELL                      | 1500 D x 4500 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CEL-062                           | 2nd MOLYBDENUM CLEANER COLUMN CELL                      | 1100 D x 4000 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CEL-063                           | 3rd MOLYBDENUM CLEANER COLUMN CELL                      | 1000 D x 4000 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CEL-064                           | 4th MOLYBDENUM CLEANER COLUMN CELL                      | 1000 D x 4000 H  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CRN-015                           | MOLYBDENUM RECOVERY AREA CRANE                          | 10t              | 15.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-CYC-011                           | COPPER/MOLYBDENUM REGRIND CYCLONE                       | 1 x 50           |              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-071                           | MOLYBDENUM ROUGHER FLOTATION CELLS No.1                 | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-072                           | MOLYBDENUM ROUGHER FLOTATION CELLS No.2                 | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-073                           | MOLYBDENUM ROUGHER FLOTATION CELLS No.3                 | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-074                           | MOLYBDENUM ROUGHER FLOTATION CELLS No.4                 | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-075                           | MOLYBDENUM ROUGHER/SCAVENGER FLOTATION CELLS No.1       | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-FLO-076                           | MOLYBDENUM ROUGHER/SCAVENGER MOLYBDENUM ROUGHER/SCAV    | 30m³             | 45.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-MIL-001                           | COPPER/MOLYBDENUM REGRIND MILL                          |                  | 20.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-088                           | COPPER/MOLYBDENUM REGRIND MILL PUMPBOX                  |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-091                           | MOLYBDENUM SCAVENGER TAILINGS PUMPBOX                   |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-092                           | 1st MOLYBDENUM CLEANER TAILINGS PUMPBOX                 |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-093                           | COPPER/MOLYBDENUM REGRIND CYCLONE FEED PUMPBOX          |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-094                           | 2nd MOLYBDENUM CLEANER TAILINGS PUMPBOX                 |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-095                           | 3rd MOLYBDENUM CLEANER TAILINGS PUMPBOX                 |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PBX-096                           | 4th MOLYBDENUM CLEANER TAILINGS PUMPBOX                 |                  |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-031                           | COPPER/MOLYBDENUM THICKENER UNDERFLOW PUMP No.1         | 50 X 32          | 3.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-032                           | COPPER/MOLYBDENUM THICKENER UNDERFLOW PUMP No.2         | 50 X 32          | 3.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-033                           | COPPER/MOLYBDENUM THICKENER OVERFLOW PUMP No.1          | 50 X 32          | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-034                           | COPPER/MOLYBDENUM THICKENER OVERFLOW PUMP No.2          | 50 X 32          | 2.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-035                           | MOLYBDENUM SCAVENGER TAILINGS PUMP No.1                 | 75 X 50          | 7.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-036                           | MOLYBDENUM SCAVENGER TAILINGS PUMP No.2                 | 75 X 50          | 7.5          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-037                           | COPPER/MOLYBDENUM REGRIND CYCLONE FEED PUMP No.1        | 25 X 25          | 3.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-038                           | COPPER/MOLYBDENUM REGRIND CYCLONE FEED PUMP No.2        | 25 X 25          | 3.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-039                           | 2nd MOLYBDENUM CLEANER TAILINGS PUMP No.1               | 25 X 25          | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-040                           | 2nd MOLYBDENUM CLEANER TAILINGS PUMP No.2               | 25 X 25          | 1.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-041                           | 1st MOLYBDENUM CLEANER TAILINGS PUMP No.1               | 50 X 37          | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-042                           | 1st MOLYBDENUM CLEANER TAILINGS PUMP No.2               | 25 X 25          | 2.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-043                           | 2nd MOLYBDENUM CLEANER CONCENTRATE VERTICAL PUMP        | 25               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-044                           | 3rd MOLYBDENUM CLEANER CONCENTRATE VERTICAL PUMP        | 25               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-045                           | MOLYBDENUM SCAVENGER CONCENTRATE VERTICAL PUMP PUMP No. | 25               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-046                           | MOLYBDENUM SCAVENGER CONCENTRATE VERTICAL PUMP PUMP No. | 25               | 1.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-047                           | 1st MOLYBDENUM CLEANER CONCENTRATE VERTICAL PUMP        | 25               | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-051                           | 4th MOLYBDENUM CLEANER CONCENTRATE VERTICAL PUMP        | 25               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-052                           | 3rd MOLYBDENUM CLEANER TAILINGS PUMP No.1               | 25 X 25          | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-053                           | 3rd MOLYBDENUM CLEANER TAILINGS PUMP No.2               | 25 X 25          | 1.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-054                           | 4th MOLYBDENUM CLEANER TAILINGS PUMP No.1               | 25 X 25          | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-PSL-055                           | 4th MOLYBDENUM CLEANER TAILINGS PUMP No.2               | 25 X 25          | 1.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E80-PSL-056                           | COPPER/MOLYBDENUM REGRIND MILL PUMP                     |                  | 2.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-SMP-341                           | Mo ROUGHER CONCENTRATE SAMPLER                          |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-342                           | Mo SCAVENGER TAILINGS SAMPLER                           |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-343                           | 1st Mo CLEANER CONCENTRATE SAMPLER                      |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-344                           | 2nd Mo CLEANER CONCENTRATE SAMPLER                      |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-345                           | 3rd Mo CLEANER CONCENTRATE SAMPLER                      |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-346                           | 4th Mo CLEANER CONCENTRATE SAMPLER                      |                  | 0.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                                 | DESCRIPTION   | EQUIPMENT SIZE  | POWER (kW)     | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|--|---|-----------------|----------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| E80-SMP-351                                      | COPPER/MOLYBDENUM REGRIND CYCLONE OVERFLOW SAMPLER        |                 | 0.5            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-SMP-352                                      | COPPER/MOLYBDENUM REGRIND MILL SAMPLER                    |                 | 0.5            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| E80-THK-021                                      | COPPER/MOLYBDENUM THICKENER                               | 15000 D         | 10.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-081                                      | COPPER/MOLYBDENUM THICKENER OVERFLOW STANDPIPE            |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-082                                      | 1st MOLYBDENUM CLEANER CLEANER CONCENTRATE TANK           |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-083                                      | 2nd MOLYBDENUM CLEANER CONCENTRATE TANK                   |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-084                                      | 3rd MOLYBDENUM CLEANER CONCENTRATE TANK                   |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-085                                      | MOLYBDENUM SCAVENGER CONCENTRATE TANK                     |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-086                                      | COPPER/MOLYBDENUM CONDITIONER TANK                        | 3000 D x 2500 H |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E80-TNK-087                                      | 4th MOLYBDENUM CLEANER CONCENTRATE TANK                   |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| <i>MOLYBDENUM CIRCUIT TOTAL kW:</i>              |   |                 | <b>374.5</b>   | <b>353.0</b>                        |                                     |          |          |       |         |
| <b>Area: E90 - TAILINGS DISPOSAL AND RECLAIM</b> |   |                 |                |                                     |                                     |          |          |       |         |
| E90-BAR-001                                      | TAILINGS POND BARGE                                       |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-BAR-015                                      | WATER RELEASE PUMP BARGE                                  |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-BAR-101                                      | CIL RESIDUE POND BARGE                                    |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-BAR-130                                      | 2nd STAGE CYCLONING DILUTION WATER PUMP BARGE             |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-BAR-260                                      | SPLITTER DAM CYCLONING DILUTION WATER PUMP BARGE          |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-141                                      | LINE 1 STAGE 1 TAILINGS CYCLONE CLUSTER No.1              |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-142                                      | LINE 1 STAGE 2 TAILINGS CYCLONE CLUSTER No.2              |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-151                                      | LINE 2 STAGE 1 (FUTURE) TAILINGS CYCLONE CLUSTER No.1     |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-152                                      | LINE 2 STAGE 2 (FUTURE) TAILINGS CYCLONE CLUSTER No.2     |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-211                                      | LINE 2 STAGE 1 SPLITTER DAM TAILINGS CYCLONE CLUSTER No.1 |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-212                                      | LINE 2 STAGE 2 SPLITTER DAM TAILINGS CYCLONE CLUSTER No.2 |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-CYC-240                                      | LINE 2 SATGE 2 SADDLE DAM TAILINGS CYCLONE CLUSTER        |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PBX-215                                      | SPLITTER DAM TAILINGS CYCLONE PUMPBOX                     |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PBX-241                                      | SADDLE DAM TAILINGS CYCLONE PUMPBOX No.2                  |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PBX-241                                      | SADDLE DAM TAILINGS CYCLONE PUMPBOX No.1                  |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-002                                      | RECLAIMED WATER BOOSTER STATION PUMP No.1                 | 550 x 500       | 1120.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-003                                      | RECLAIMED WATER BOOSTER STATION PUMP No.2                 | 550 x 500       | 1120.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-004                                      | RECLAIMED WATER BOOSTER STATION PUMP No.3                 | 550 x 500       | 1120.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-005                                      | RECLAIMED WATER BOOSTER STATION PUMP No.4                 | 550 x 500       | 1120.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E90-PLO-010                                      | DE-ICING PUMP   |                 | 15.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-011                                      | WATER RELEASE PUMP No.1                                   |                 | 200.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-012                                      | WATER RELEASE PUMP No.2                                   |                 | 200.0          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E90-PLO-021                                      | WATER RECLAIM POND PUMP No.1                              | 550 x 500       | 1600.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-022                                      | WATER RECLAIM POND PUMP No.2                              | 550 x 500       | 1600.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-023                                      | WATER RECLAIM POND PUMP No.3                              | 550 x 500       | 1600.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-024                                      | WATER RECLAIM POND PUMP No.4                              | 550 x 500       | 1600.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E90-PLO-110                                      | CIL RESIDUE BARGE DE-ICING PUMP                           |                 | 15.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-121                                      | CIL WATER RECLAIM POND PUMP No.1                          | 200 x 150       | 280.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-122                                      | CIL WATER RECLAIM POND PUMP No.2                          | 200 x 150       | 280.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-131                                      | 2nd STAGE CYCLONING DILUTION WATER PUMP No.1              |                 | 400.0          | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-132                                      | 2nd STAGE CYCLONING DILUTION WATER PUMP No.2              |                 | 400.0          | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-261                                      | SPLITTER DAM CYCLONING DILUTION WATER PUMP No.1           |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PLO-262                                      | SPLITTER DAM CYCLONING DILUTION WATER PUMP No.2           |                 |                | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PON-011                                      | ROUGHER/SCAVENGER TAILINGS POND                           |                 |                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PON-111                                      | CIL RESIDUE POND  |                 |                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PSL-216                                      | SPLITTER DAM TAILINGS CYCLONE PUMP No.1                   |                 | 50.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PSL-217                                      | SPLITTER DAM TAILINGS CYCLONE PUMP No.2                   |                 | 50.0           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E90-PSL-251                                      | SADDLE DAM TAILINGS CYCLONE PUMP No.1                     |                 | 50.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-PSL-252                                      | SADDLE DAM TAILINGS CYCLONE PUMP No.2                     |                 | 50.0           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| E90-SYS-031                                      | PYRITE TAILINGS LINE No.1 ENERGY RECOVERY SYSTEM No.1     |                 | -780.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| E90-SYS-032                                      | PYRITE TAILINGS LINE No.1 ENERGY RECOVERY SYSTEM No.2     |                 | -780.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| <i>TAILINGS DISPOSAL AND RECLAIM TOTAL kW:</i>   |   |                 | <b>11310.0</b> | <b>7490.0</b>                       |                                     |          |          |       |         |
| <b>Area: G10 - FRESH/FIRE/POTABLE WATER</b>      |   |                 |                |                                     |                                     |          |          |       |         |
| G10-PLO-011                                      | PLANTSITE POTABLE WATER DISTRIBUTION PUMP No.1            |                 | 12.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-PLO-012                                      | PLANTSITE POTABLE WATER DISTRIBUTION PUMP No.2            |                 | 12.0           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G10-PLO-031                                      | PLANTSITE FRESH WATER SUPPLY PUMP No.1                    |                 | 20.0           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER                               | DESCRIPTION   | EQUIPMENT SIZE    | POWER (kW)   | OPERATING                           | STAND BY                            | MATERIAL | CAPACITY | MODEL | REMARKS |
|--|---|-------------------|--------------|-------------------------------------|-------------------------------------|----------|----------|-------|---------|
| G10-PLO-032                                    | PLANTSITE FRESH WATER SUPPLY PUMP No.2                        |                   | 20.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G10-PLO-111                                    | MINESITE POTABLE WATER DISTRIBUTION PUMP No.1                 |                   | 12.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-PLO-112                                    | MINESITE POTABLE WATER DISTRIBUTION PUMP No.2                 |                   | 12.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G10-PLO-131                                    | MINESITE FRESH WATER SUPPLY PUMP No.1                         |                   | 20.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-PLO-132                                    | MINESITE FRESH WATER SUPPLY PUMP No.2                         |                   | 20.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G10-TNK-001                                    | PLANTSITE FRESH/FIRE WATER TANK                               | 12000 D x 9000    |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-TNK-010                                    | PLANTSITE POTABLE TANK WATER                                  | 3000 D x 4000     |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-TNK-101                                    | MITCHELL MINESITE FRESH/FIRE WATER TANK                       | 12000 D x 9000    |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| G10-TNK-110                                    | MINESITE POTABLE WATER TANK                                   | 3000 D x 4000     |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| <b>FRESH/FIRE/POTABLE WATER TOTAL kW:</b>      |   |                   | <b>128.0</b> | <b>64.0</b>                         |                                     |          |          |       |         |
| <b>Area: G20 - PROCESS WATER</b>               |   |                   |              |                                     |                                     |          |          |       |         |
| G20-PLO-011                                    | CIL CIRCUIT PROCESS WATER PUMP No.1                           | 200 x 150         | 50.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| G20-PLO-012                                    | CIL CIRCUIT PROCESS WATER PUMP No.2                           | 200 x 150         | 50.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G20-PLO-021                                    | PROCESS WATER TANK No.2 BOOSTER PUMP No.1                     | 250 x 200         | 60.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| G20-PLO-022                                    | PROCESS WATER TANK No.2 BOOSTER PUMP No.2                     | 250 x 200         | 60.0         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |          |          |       | PFD     |
| G20-TNK-010                                    | CIL PROCESS WATER TANK  | 8000 D x 8000 H   |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| G20-TNK-020                                    | FLOTATION PROCESS WATER TANK                                  | 25000 D x 15000 H |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| <b>PROCESS WATER TOTAL kW:</b>                 |   |                   | <b>220.0</b> | <b>110.0</b>                        |                                     |          |          |       |         |
| <b>Area: G30 - GLAND WATER</b>                 |   |                   |              |                                     |                                     |          |          |       |         |
| G30-FIL-011                                    | PLANTSITE GLAND WATER FILTER                                  |                   |              | <input type="checkbox"/>            | <input type="checkbox"/>            |          |          |       | PFD     |
| G30-PLO-001                                    | PLANTSITE GLAND WATER PUMP                                    |                   | 30.0         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       | PFD     |
| <b>GLAND WATER TOTAL kW:</b>                   |   |                   | <b>30.0</b>  | <b>30.0</b>                         |                                     |          |          |       |         |
| <b>Area: J10 - PLANT SITE - ADMIN BUILDING</b> |   |                   |              |                                     |                                     |          |          |       |         |
| J10-ACU-001                                    | BUILDING SERVICES PROPANE AIR CONDITIONING UNIT - CORE ADMIN  | 12,000 CFM        | 5.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-002                                    | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - CORE    | 30 TONS           | 29.8         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-021                                    | BUILDING SERVICES PROPANE AIR CONDITIONING UNIT - OFFICE NORT | 3000 CFM          | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-022                                    | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - OFFIC   | 10 TONS           | 7.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-023                                    | BUILDING SERVICES PROPANE AIR CONDITIONING UNIT - OFFICE SOUT | 3000 CFM          | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-024                                    | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - OFFIC   | 10 TONS           | 7.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-025                                    | BUILDING SERVICES AIR CONDITIONING UNIT - SERVER ROOM ADMINI  | 1600 CFM          | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-026                                    | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - SERVE   | 4 TONS            | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-027                                    | BUILDING SERVICES AIR CONDITIONING UNIT - UPS ROOM ADMINISTR  | 1600 CFM          | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-ACU-028                                    | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - UPS R   | 4 TONS            | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-FAN-001                                    | BUILDING SERVICES EXHAUST FAN - WASHROOMS ADMINISTRATION      | 400 CFM           | 0.2          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-FAN-002                                    | BUILDING SERVICES EXHAUST FAN - CONFERENCE #1 ADMINISTRATIO   | 400 CFM           | 0.2          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-FAN-003                                    | BUILDING SERVICES EXHAUST FAN - CONFERENCE #2 ADMINISTRATIO   | 400 CFM           | 0.2          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-FAN-004                                    | BUILDING SERVICES EXHAUST FAN - ENV LAB ADMINISTRATION        | 2,900 CFM         | 2.2          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-FAN-005                                    | BUILDING SERVICES EXHAUST FAN - ENV LAB ADMINISTRATION        | 2,900 CFM         | 2.2          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-001                                    | BUILDING SERVICES ELECTRIC HOT WATER HEATER ADMINISTRATION    | 9kW               | 9.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-003                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-004                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-005                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-006                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-007                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-008                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-009                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-010                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-011                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-012                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-013                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-014                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-015                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-016                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-017                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-018                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-019                                    | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ADMINISTRATION    | 1kW               | 1.0          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |
| J10-HTR-020                                    | BUILDING SERVICES PROPANE MAKE UP AIR UNIT - LAB ADMINISTRATI | 5,800 CFM         | 5.5          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |          |          |       |         |



**KERR-SULPHURETS-MITCHELL PROJECT (PFS UPDATE 2012)**  
**EQUIPMENT LIST - ALL EQUIPMENT SORTED BY AREA**

WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION   | EQUIPMENT SIZE | POWER (kW) | OPERATING | STAND BY | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|---|----------------|------------|-----------|----------|----------|----------|-------|---------|
| PLANT SITE - ADMIN BUILDING TOTAL kW:                     |   |                |            | 109.1     | 109.1    |          |          |       |         |
| <b>Area: J11 - PLANT SITE - ASSAY AND MET LAB</b>         |   |                |            |           |          |          |          |       |         |
| J11-ACU-005   | BUILDING SERVICES AIR CONDITIONING UNIT - OFFICES ASSAY LABOR | 5 TONS         | 2.2        | ✓         |          |          |          |       |         |
| J11-ACU-006   | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT OFFICE    | 5 TONS         | 3.7        | ✓         |          |          |          |       |         |
| J11-BLD-001   | METALLURGICAL LAB   |                | 70.0       | ✓         |          |          |          |       |         |
| J11-COL-001   | BUILDING SERVICES DUST COLLECTOR - LAB ASSAY LABORATORY       | 10,000 CFM     | 10.0       | ✓         |          |          |          |       |         |
| J11-FAN-001   | BUILDING SERVICES EXHAUST FAN - DUST COLLECTOR LAB ASSAY LA   | 10,000 CFM     | 18.6       | ✓         |          |          |          |       |         |
| J11-FAN-002   | BUILDING SERVICES EXHAUST FAN COMPRESSOR ROOM ASSAY LABO      | 1,000 CFM      | 2.2        | ✓         |          |          |          |       |         |
| J11-FAN-003   | BUILDING SERVICES EXHAUST FAN - AA ASSAY LABORATORY           | 400 CFM        | 0.4        | ✓         |          |          |          |       |         |
| J11-FAN-004   | BUILDING SERVICES EXHAUST FAN - LUNCHROOM ASSAY LABORATOR     | 400 CFM        | 0.2        | ✓         |          |          |          |       |         |
| J11-FAN-005   | BUILDING SERVICES EXHAUST FAN - WASHROOMS ASSAY LABORATO      | 400 CFM        | 0.4        | ✓         |          |          |          |       |         |
| J11-FAN-006   | BUILDING SERVICES EXHAUST FAN - JANITORS ASSAY LABORATORY     | 100            | 0.2        | ✓         |          |          |          |       |         |
| J11-FAN-007   | BUILDING SERVICES EXHAUST FAN - PERCHLORIC SCRUBBER ASSAY     | 2,500 CFM      | 7.5        | ✓         |          |          |          |       |         |
| J11-HTR-001   | BUILDING SERVICES ELECTRIC HOT WATER HEATER ASSAY LABORAT     | 9kW            | 9.0        | ✓         |          |          |          |       |         |
| J11-HTR-002   | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ASSAY LABORAT     | 2kW            | 2.0        | ✓         |          |          |          |       |         |
| J11-HTR-003   | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ASSAY LABORAT     | 2kW            | 2.0        | ✓         |          |          |          |       |         |
| J11-HTR-004   | BUILDING SERVICES ELECTRIC BASEBOARD HEATER ASSAY LABORAT     | 2kW            | 2.0        | ✓         |          |          |          |       |         |
| J11-HTR-007   | BUILDING SERVICES PROPANE MAKE UP AIR UNIT - FIRE ASSAY ASSAY | 10,000 CFM     | 7.5        | ✓         |          |          |          |       |         |
| J11-HTR-011   | BUILDING SERVICES PROPANE MAKE UP AIR UNIT - WET LAB ASSAY LA | 5,000 CFM      | 3.7        | ✓         |          |          |          |       |         |
| J11-SCU-002   | BUILDING SERVICES PERCHLORIC SCRUBBER ASSAY LABORATORY        | 2,500 CFM      |            | ✓         |          |          |          |       |         |
| PLANT SITE - ASSAY AND MET LAB TOTAL kW:                  |   |                |            | 141.6     | 141.6    |          |          |       |         |
| <b>Area: J12 - PLANT SITE - WAREHOUSE AND MAINTENANCE</b> |   |                |            |           |          |          |          |       |         |
| J12-ACU-032   | BUILDING SERVICES PROPANE AIR CONDITIONING UNIT - OFFICES TRU | 8,000 CFM      | 7.5        | ✓         |          |          |          |       |         |
| J12-ACU-033   | BUILDING SERVICES REMOTE AIR COOLED CONDENSING UNIT - OFFIC   | 20 TONS        | 30.0       | ✓         |          |          |          |       |         |
| J12-BLD-001   | WORKSHOP  |                | 150.0      | ✓         |          |          |          |       |         |
| J12-FAN-001   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-002   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-003   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-004   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-005   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-006   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-007   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-008   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-009   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-010   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-011   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-012   | BUILDING SERVICES CEILING FAN TRUCK SHOP SHOPS                | 36" DIA        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-013   | BUILDING SERVICES AXIAL EXHAUST FAN - AMBULANCE TRUCK SHOP    | 3,500 CFM      | 2.2        | ✓         |          |          |          |       |         |
| J12-FAN-014   | BUILDING SERVICES EXHAUST FAN - MENS SHOWERS TRUCK SHOP S     | 400 CFM        | 0.4        | ✓         |          |          |          |       |         |
| J12-FAN-015   | BUILDING SERVICES EXHAUST FAN - WOMENS SHOWERS TRUCK SHO      | 400 CFM        | 0.4        | ✓         |          |          |          |       |         |
| J12-FAN-016   | BUILDING SERVICES EXHAUST FAN - CONFERENCE TRUCK SHOP SHO     | 200 CFM        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-017   | BUILDING SERVICES EXHAUST FAN - LUNCHROOM TRUCK SHOP SHOP     | 200 CFM        | 0.2        | ✓         |          |          |          |       |         |
| J12-FAN-018   | BUILDING SERVICES EXHAUST FAN - JANITORS TRUCK SHOP SHOPS     | 100 CFM        | 0.1        | ✓         |          |          |          |       |         |
| J12-FAN-019   | BUILDING SERVICES ROOF EXHAUST FAN - WASH BAY TRUCK SHOP S    | 5,000 CFM      | 3.7        | ✓         |          |          |          |       |         |
| J12-FAN-020   | BUILDING SERVICES ROOF EXHAUST FAN - WASH BAY TRUCK SHOP S    | 5,000 CFM      | 3.7        | ✓         |          |          |          |       |         |
| J12-FAN-021   | BUILDING SERVICES ROOF EXHAUST FAN - FAB SHOP TRUCK SHOP SH   | 5,000 CFM      | 3.7        | ✓         |          |          |          |       |         |
| J12-FAN-022   | BUILDING SERVICES ROOF EXHAUST FAN - MACHINE SHOP TRUCK SH    | 5,000 CFM      | 3.7        | ✓         |          |          |          |       |         |
| J12-FAN-023   | BUILDING SERVICES AXIAL EXHAUST FAN - WELDING TRUCK SHOP SH   | 10,000 CFM     | 5.5        | ✓         |          |          |          |       |         |
| J12-FAN-024   | BUILDING SERVICES ROOF EXHAUST FAN - REPAIR BAY TRUCK SHOP    | 20,000 CFM     | 5.5        | ✓         |          |          |          |       |         |
| J12-FAN-025   | BUILDING SERVICES ROOF EXHAUST FAN - REPAIR BAY TRUCK SHOP    | 20,000 CFM     | 5.5        | ✓         |          |          |          |       |         |
| J12-FAN-026   | BUILDING SERVICES ROOF EXHAUST FAN - REPAIR BAY TRUCK SHOP    | 20,000 CFM     | 5.5        | ✓         |          |          |          |       |         |
| J12-FAN-027   | BUILDING SERVICES ROOF EXHAUST FAN - REPAIR BAY TRUCK SHOP    | 20,000 CFM     | 5.5        | ✓         |          |          |          |       |         |
| J12-FAN-028   | BUILDING SERVICES WALL EXHAUST FAN - LUBE STORAGE TRUCK SH    | 1,500 CFM      | 2.2        | ✓         |          |          |          |       |         |
| J12-FAN-029   | BUILDING SERVICES WALLEXHAUST FAN - COMPRESSOR ROOM TRUC      | 1,500 CFM      | 0.6        | ✓         |          |          |          |       |         |
| J12-FAN-030   | BUILDING SERVICES WALL EXHAUST FAN - LIGHT VEHICLE REPAIR TR  | 1,500 CFM      | 0.6        | ✓         |          |          |          |       |         |
| J12-FAN-031   | BUILDING SERVICES WALL EXHAUST FAN - BATTERY ROOM TRUCK SH    | 300 CFM        | 0.4        | ✓         |          |          |          |       |         |
| J12-HTR-001   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S     | 10kW           | 0.7        | ✓         |          |          |          |       |         |
| J12-HTR-002   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S     | 10kW           | 0.7        | ✓         |          |          |          |       |         |





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WARDROP PROJECT No : 12528801.00  
 EQUIPMENT LIST : 1252880100-LST-M0601-01

| EQUIPMENT NUMBER  | DESCRIPTION  | EQUIPMENT SIZE | POWER (kW)   | OPERATING                           | STAND BY                 | MATERIAL | CAPACITY | MODEL | REMARKS |
|---|--|----------------|--------------|-------------------------------------|--------------------------|----------|----------|-------|---------|
| J12-HTR-003   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 10kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-004   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 10kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-005   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 10kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-006   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 10kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-007   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 10kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-008   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-009   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-010   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-011   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-012   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-013   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-014   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-015   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-016   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-017   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-018   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-019   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-020   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-021   | BUILDING SERVICES PROPANE UNIT HEATER - WAREHOUSE TRUCK S    | 30kW           | 0.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-022   | BUILDING SERVICES ELECTRIC UNIT HEATER - AMBULANCE TRUCK SH  | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-023   | BUILDING SERVICES ELECTRIC UNIT HEATER - AMBULANCE TRUCK SH  | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-024   | BUILDING SERVICES ELECTRIC UNIT HEATER - AMBULANCE TRUCK SH  | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-025   | BUILDING SERVICES ELECTRIC UNIT HEATER - AMBULANCE TRUCK SH  | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-026   | BUILDING SERVICES PROPANE H&V UNIT - ELECTRICAL SHOP TRUCK S | 1,900 CFM      | 3.7          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-027   | BUILDING SERVICES PROPANE H&V UNIT - TRUCK WASH TRUCK SHOP   | 15,000 CFM     | 11.2         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-028   | BUILDING SERVICES PROPANE H&V UNIT - REPAIR BAY TRUCK SHOP S | 30,000 CFM     | 18.7         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-029   | BUILDING SERVICES PROPANE H&V UNIT - REPAIR BAY TRUCK SHOP S | 30,000CFM      | 18.7         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-030   | BUILDING SERVICES PROPANE H&V UNIT - FAB SHOP TRUCK SHOP SH  | 15000 CFM      | 11.2         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-031   | BUILDING SERVICES PROPANE H&V UNIT - SHOWERS TRUCK SHOP SH   | 15000 CFM      | 11.2         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-034   | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL SHOP TRU | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| J12-HTR-035   | BUILDING SERVICES ELECTRIC UNIT HEATER - ELECTRICAL SHOP TRU | 10kW           | 10.4         | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| <b>PLANT SITE - WAREHOUSE AND MAINTENANCE TOTAL kW:</b> |  |                | <b>391.3</b> | <b>391.3</b>                        |                          |          |          |       |         |
| <b>Area: J20 - MITCHELL SITE - TRUCKSHOP</b>            |  |                |              |                                     |                          |          |          |       |         |
| J20-BLD-001   | TRUCK SHOP   |                | 100.0        | <input checked="" type="checkbox"/> | <input type="checkbox"/> |          |          |       |         |
| <b>MITCHELL SITE - TRUCKSHOP TOTAL kW:</b>              |  |                | <b>100.0</b> | <b>100.0</b>                        |                          |          |          |       |         |

PLANT TOTAL kW: 207,370 187,613