

Label	Description	Lw Sound Power Level, dB(A)	Elevation AGL (Noise Reference)	attenuation by building or mitigation, dB	Lw incl attenuation dB(A)	power, kW	Comments
2110-BIN-001	Concentrate Unloading Bin	90	2	0	90		
2110-BIN-002	Concentrate Crusher Feed Bin	0	12	0	90		Bin will not create any noise
2110-BIN-00x	Crushed Concentrate Bin	0	2	0	90		Bin will not create any noise
2110-CHU-001	Concentrate Unloading Feeder Discharge Chute	85	15	0	85		
2110-CHU-002	Concentrate Crusher Feed Conveyor Discharge Chute	85	15	0	85		
2110-CHU-003	Concentrate Crusher Feed Bin Overflow Chute	85	15	0	85		
2110-CHU-005	Crusher Scalping Screen Undersize Chute	85	15	0	85		
2110-CHU-008	Concentrate Screening Underflow Conveyor Discharge Chute	85	15	0	85		
2110-CHU-009	Crushed Concentrate Weight Belt Feeder Discharge Chute	85	15	0	85		
2110-CHU-010	Crushed Concentrate Discharge Chute	85	3	0	85		
2110-CRU-001	Concentrate Crusher	110	4	22	88	90	acoustic enclosure (structure with sandwich panels)
2110-CVR-001	Concentrate Crusher Feed Conveyor	85	15	0	85	22	Conveyors will not create noise greater then 85dB
2110-CVR-002	Crushed Concentrate Conveyor	90	15	0	90	7,5	
2110-CVR-003	Concentrate Screening Underflow Conveyor	90	15	0	90	5,5	

2110-FAN-001	Concentrate Crushing Dust Collector I.D. Fan	90	2	0	90	7,5	
2110-FDR-001	Concentrate Unloading Feeder	90	10	0	90	30	
2110-FDR-002	Concentrate Crusher Feeder	90	10	0	90	4	
2110-MSC-001	Dust Suppression Fogger Module	85		0	85		Conveyors will not create noise greater then 85dB
2110-PMP-001	Concentrate Unloading Sump Pump	90	1	0	90		
2110-SCB-001	Concentrate Screening Underflow Conveyor Belt Scale	90	5	0	90	0,5	
2110-SCN-001	Crusher Scalping Screen	105	24	15	90	6	acoustic enclosure
2110-WEF-003	Crushed Concentrate Weigh Belt Feeder	90	10	0	90		
2120-CHU-003	Concentrate Tripper Conveyor Discharge Chute	85	15	0	85		
2120-CVR-001	Concentrate Tripper Conveyor	85	15	0	85	15	Conveyors will not create noise greater then 85dB
2120-PMP-001	Stockpile Area Sump Pump	90	1	0	90		
2120-TRC-001	Concentrate Tripper	85	25	0	85	3	Conveyors will not create noise greater then 85dB
2130-CHU-001	Concentrate Reclaim Feeder Discharge Chute 1	85	15	0	85		
2130-CHU-002	Concentrate Reclaim Feeder Discharge Chute 2	85	15	0	85		
2130-CHU-003	Concentrate Crusher Feed Bin Overflow Chute	85	15	0	85		
2130-CHU-008	Concentrate Preheater Feed Conveyor Discharge Chute	85	15	0	85		

2130-CVR-001	Preheater Feed Conveyor	85	15	0	85	30	Conveyors will not create noise greater then 85dB
2130-CVR-003	Concentrate Preheater Feed Conveyor	90	15	0	90	5	
2130-FAN-002	Preheater Feed Bin Dust Collector Fan	90	2	0	90	44	
2130-FDR-001	Concentrate Reclaim Feeder 1	90	10	0	90	15	
2130-FDR-002	Concentrate Reclaim Feeder 2	90	10	0	90	15	
2130-HOP-001	Concentrate Reclaim Hopper 1	90	10	0	90		
2130-HOP-002	Concentrate Reclaim Hopper 2	90	10	0	90		
2130-PMP-001	Crushing Area Sump Pump	90	1	0	90		
2130-WEF-001	Concentrate Weigh Belt Feeder	90		0	90	11	
2140-BLO-001	Lithium Sulphate Monohydrate Pneumatic Conveying Blower	90	1	0	90	45	
2150-CHU-001-A	Lithium Sulphate Monohydrate Screw Feeder Discharge Chute A	85	15	0	85		
2150-PMP-001	Lithium Sulphate Area Sump Pump	90		0	90	4	
2150-SCV-001-A	Lithium Sulphate Monohydrate Screw Feeder A	85	15	0	85	25	
2150-VTR-001-A	Lithium Sulphate Monohydrate Silo Activator A	90	6	0	90	2,24	
2160-AGR-001	Lithium Sulphate Dissolution Tank Agitator	90	5	0	90	18,04	

2160-PMP-001-A	Lithium Sulphate Dissolution Tank Discharge Pump A	86	1	0	86	11	
2160-SCV--001	Lithium Sulphate Dissolution Tank Screw Feeder	85	15	0	85	30	
2210-BRN-001	Hot Gas Generator	85	5	0	85		
2210-BRN-002	Valve Skid & Burner Control System	85	5	0	85		
2210-CHU-001	Kiln Riser Transition Piece (KRTP)	85	15	0	85		
2210-CHU-002	Preheater Cyclone Feed Chute	85		0	85		
2210-FAN-001	HCG Combustion Air Fan	85	2	0	85	7,5	As Per FLS, it is less than
2210-FAN-002	Combustion Air Fan	85		0	85	1,5	As Per FLS, it is less than
2210-PMP-001-A	Emergency Water Injection System Pump A	85	1	0	85	7,5	As Per FLS, it is less than 85dB
2220-ASL-001	Calcination Baghouse Airslide	85	20	0	85		As Per FLS, it is less than 85dB
2220-BAG-001	Calciner Dust Reciever	80		0	80		
2220-BIN-001	Calciner Kiln Feed End Dump Bin	85	15	0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2220-BIN-002	Calciner Kiln Discharge End Dump Bin	85	15	0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2220-BLO-001	Pneumatic System Blower	85	1	0	85	30	As Per FLS, it is less than
2220-BLO-002	Calciner Main Drive Motor Blower	85	1	0	85		
2220-BRN-001	Calciner Kiln Gas Burner	85	5	0	85		
2220-BRN-002	Gas Burner Overhead Trolley	85	5	0	85	0,55	
2220-BRN-003	Calciner Burner Valve Train	85	5	0	85	0,63	

2220-CHU-001	Kiln Discharge Housing	85		0	85		
2220-CVR-001	Calciner Baghouse Hopper Pneumatic Conveyor	85	15	0	85		As Per FLS, it is less than 85dB
2220-DAM-001	Calciner Dust Collection Damper	85	10	0	85		As Per FLS, it is less than 85dB
2220-DAM-002	Calciner ID Fan Inlet Damper	85	10	0	85	0,25	As Per FLS, it is less than 85dB
2220-DRV-001	Calciner Kiln Drive	85	5	0	85	185	As Per FLS, it is less than
2220-DRV-002	Calciner Kiln Auxilliary Drive	85	5	0	85	18,5	As Per FLS, it is less than 85dB
2220-FAN-001	Calciner Baghouse ID Fan	85	10	0	85	160	As Per FLS, it is less than
2220-FAN-002	Calcination Baghouse Airslide Fan	85	10	0	85	7,5	As Per FLS, it is less than 85dB
2220-FAN-003	Calciner Dust Reciever Fan	85	10	0	85	3,7	As Per FLS, it is less than
2220-FAN-004	Kiln Outlet Nose Ring Cooling Air Fan	85	10	0	85	30	As Per FLS, it is less than 85dB
2220-FAN-005	Calciner Primary Air Fan	85	10	0	85	18,5	As Per FLS, it is less than
2220-FAN-006	Calciner Dust Reciever Fan 2	85		0	85	3,7	As Per FLS, it is less than 85dB
2220-GSS-001	Grease Spray System	85	5	0	85		
2220-KLN-001	Calciner Kiln Rotary Shell	85		0	85		Kiln Shell will not create noise, Kiln Drive associated with gearbox will create noise.
2220-LUB-001	Gearbox Lubrication System	85	5	0	85	16,2	As Per FLS, it is less than 85dB
2220-LUB-002	Grease Spray System	85	5	0	85		As Per FLS, it is less than
2220-LUB-003	Calciner Kiln Trunnion Bearing Oil Unit	85	5	0	85		As Per FLS, it is less than 85dB
2220-STK-001	Calciner Offgas Stack	85	50	0	85		As Per FLS, it is less than
2230-ASL-001	Air Blaster	90	20	0	90		
2230-ASL-007	Air Blaster	90	20	0	90		
2230-BAG-001	Cooler Jet Pulse Bag Filter	85		0	85		

2230-BIN-001	Calciner Cooler Feed End Dump Bin	85	15	0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2230-BIN-002	Calciner Cooler Discharge Oversize Bin	85	15	0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2230-CHU-004	Cooler Inlet Hood	85	15	0	85		
2230-CHU-012	Cooler Discharge End Hood	85	15	0	85		
2230-CLR-001	Calcine Cooler	85		0	85		Cooler Shell will not create noise, Kiln Drive associated with gearbox will create noise.
2230-CVR-001	Calcine Cooler Discharge Conveyor	85		0	85		As Per FLS, it is less than 85dB
2230-DAM-001	Calciner Burner Secondary Air Fan Outlet Damper	80	10	0	80		
2230-DAM-002	Calciner Cooler Secondary Air Bypass Damper	80	10	0	80		
2230-DAM-003	Modulating Damper	80	10	0	80		
2230-DAM-004	Modulating Damper	80	10	0	80		
2230-DAM-005	Secondary Air Fan Damper	80	10	0	80		
2230-DAM-006	Rotary Cooler Tipping Valve Shaft Cooling Fan Damper	80		0	80		
2230-DRV-001	Calciner Cooler Main Drive	85	10	0	85	223	As Per FLS, it will be less than 85dB
2230-DRV-002	Calciner Cooler Auxilliary Drive	85	10	0	85	15,45	As Per FLS, it is less than 85dB
2230-FAN-001	Rotary Cooler Tipping Valve Shaft Cooling Fan	85	2	0	85	7,5	As Per FLS, it is less than 85dB
2230-FAN-002	Inlet Nose Ring Cooling Air Fan	85	2	0	85	15	As Per FLS, it is less than 85dB

2230-FAN-003	Secondary Air Fan	85	2	0	85	55	As Per FLS, it is less than
2230-FAN-004	Cooler Jet Pulse Bag Filter Fan	85	10	0	85	5,5	As Per FLS, it is less than 85dB
2230-LUB-001	Gearbox Lubrication System	85	5	0	85	3,55	As Per FLS, it is less than 85dB
2230-LUB-002	Grease Spray System	85	5	0	85		As Per FLS, it is less than
2230-PMP-001-A	Water Injection System Pump A	83	1	0	83	3	
2230-PMP-002-A	Calcliner Cooler Cooling Water Return Pump A	85	1	0	85	90	
2230-STK-001	Secondary Emergency Air Stack	85	50	0	85		
2240-ACO-001	Compressor For FK Pump 1	85	1,5	10	75	160	Acoustics enclosure is considered by FLS in the design
2240-ACO-002	Compressor For FK Pump 2	85	1,5	10	75	160	Acoustics enclosure is considered by FLS in the design
2240-ASL-001	Storage Bin Aeration System	85	20	0	85		
2240-BAG-001	Insertable Bag Filter	80		0	80		
2240-BIN-002	Ball Kibble	85		0	85		It is a static vessel used to charge the grinding media balls to the mill, it will be used only during annual maintenance only-intermittent, not in continuous operation. It will create very less noise during charging the balls.
2240-BLO-001	Fine Calcine Bin Aeration Air Slide Blower	85	5	0	85	15	As Per FLS, it will be less than 85dB

2240-BLO-002	Fine Calcine Bin Aeration Air Slide Blower	85	5	0	85	37,8	As Per FLS, it will be less than 85dB
2240-BLO-003	Fine Calcine Bin Pneumatic Conveyor Blower	85	2	0	85		As Per FLS, it will be less than 85dB
2240-BNK-001	Feed Ball Charge Kibble	85		0	85		It is a static vessel used to charge the grinding media balls to the mill, it will be used only during annual maintenance only-intermittent, not in continuous operation. It will create very less noise during charging the balls.
2240-BNK-002	Ball Charge Hopper	85		0	85		It is a static vessel used to charge the grinding media balls to the mill, it will be used only during annual maintenance only-intermittent, not in continuous operation. It will create very less noise during charging the balls.
2240-CHU-001	Feed Ball Charge Kibble	85	15	0	85		It is a static vessel used to charge the grinding media balls to the mill, it will be used only during annual maintenance only-intermittent, not in continuous operation. It will create very less noise during charging the balls.
2240-CHU-002	Ball Charge Hopper	85	15	0	85		
2240-CVR-001	Mill Feed Conveyor	85	15	0	85	4	As Per FLS, it is less than

2240-CVR-002	Mill Discharge Pneumatic Conveyor	85	15	0	85	5,5	As Per FLS, it is less than 85dB
2240-CVR-003	Fine Calcine Bin Pneumatic Conveyor	85	15	0	85		As Per FLS, it is less than 85dB
2240-DAM-001	Mill Baghouse ID Fan Inlet Damper	80	10	0	80		
2240-DAM-003	Spodumene Ball Mill Baghouse ID Fan Louver Damper	80		0	80		
2240-DRV-001	Mill Drive	85	6	0	85	600	As Per FLS, it is less than
2240-DRV-002	Mill Auxilliary Drive	90	10	15	75	7,5	
2240-FAN-001	Mill Baghouse ID Fan	85	2	0	85	37	As Per FLS, it is less than
2240-FAN-002	Insertable Bag Filter Fan	85	2	0	85	5,5	As Per FLS, it is less than
2240-HOP-003	Mill Ball Feed Hopper	85	10	0	85		As Per FLS, it is less than
2240-LUB-001	Main Bearing Lubrication System	85	5	0	85	28	As Per FLS, it is less than 85dB
2240-LUB-002	Gear Box Lubrication System	85	5	0	85	1,5	As Per FLS, it is less than 85dB
2240-LUB-003	Grease Spray System	85	5	0	85		As Per FLS, it is less than
2240-MIL-001	Ball Mill	115	6	25	90	693	acoustic enclosure
2240-PMP-004	FK Pump 1	85	1	0	85	180	As Per FLS, it is less than
2240-PMP-005	FK Pump 2	85	1	0	85	90	As Per FLS, it is less than
2240-SCV-001	Mill Ball Screw Feeder	85	15	0	85		
2240-SCV-002	Mill Baghouse Screw Feeder	85	15	0	85		
2240-STK-001	Mill Baghouse Stack	85	50	0	85		As Per FLS, it is less than
2310-ASL-001	Surge Bin Aeration System	85	20	0	85		As Per FLS, it is less than
2310-BAG-001	Insertable Bag Filter	80		0	80		
2310-BIN-001	Acid Mixer Feed Surge Bin 30MT	85	15	0	85		Storage bin will not create any noise.
2310-BLO-001	Blower for Aeration System	85	1	0	85		As Per FLS, it is less than 85dB
2310-FAN-001	Insertable Bag Filter Fan	90	2	0	90		
2310-WEF-001	Rotor Weight Feeder	85	10	0	85		As Per FLS, it is less than

2320-DAM-001	Purge Air Louver Damper	80	10	0	80		
2320-DAM-002	Acid PUG Mixer Vent Butterfly Damper	80	10	0	80		
2320-MIX-001-A	PUG Mixer With Trolley (Working)	85	10	0	85	22,09	As Per FLS, it is less than 85dB
2320-MIX-001-B	PUG Mixer With Trolley (Stand By)	85	10	0	85	22,09	As Per FLS, it is less than 85dB
2320-SCV-001	Screw Feeder With Trolley	85	15	0	85	18,5	
2330-BIN-001	Acid Roast Dust Collection Box	85		0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2330-CHU-001	Discharge Hood	85		0	85		
2330-DAM-001	Acid Roast Kiln Inlet Hood Purge Air Louvre Damper	80	10	0	80		
2330-DRV-001	Acid Roast Kiln Main Drive	85	16	0	85	163	As Per FLS, it is less than
2330-DRV-002	Acid Roast Kiln Auxiliary Drive	85	16	0	85	11,45	As Per FLS, it is less than 85dB
2330-FAN-001	Kiln Outlet Heater Fan	85	2	0	85	2,2	As Per FLS, it is less than
2330-FAN-002	Acid Roast Kiln Cooling Air Fan	85	2	0	85	0,55	As Per FLS, it is less than 85dB
2330-FAN-003	Acid Roast Kiln ID Fan	85	2	0	85	5,5	As Per FLS, it is less than
2330-FAN-005	Acid Roast Kiln Outlet Hood Heater Fan	85	2	0	85	11	
2330-KLN-001	Acid Roaster Kiln Shell	85	10	0	85		Kiln Shell will not create noise, Kiln Drive associated with gearbox will create noise.
2330-LUB-001	Gearbox Lubrication System	85	5	0	85	9	As Per FLS, it is less than 85dB
2330-LUB-002	Grease Spray System	85	5	0	85		As Per FLS, it is less than
2330-LUB-003	Acid Roast Kiln Girth Gear Lube Unit	85	5	0	85		As Per FLS, it is less than 85dB

2330-SCV-001	Acid Roast Kiln Screw Feeder	85	15	0	85		
2340-AGR-001	Acid Roast Repulp Tank Agitator	90	5	0	90	20,92	
2340-ASL-001	Air Blaster	90	20	0	90		
2340-BAG-001	Cooler Jet Bag Filter	80		0	80		
2340-BIN-001	Acid Roast Cooler Feed End Dump Bin	85	15	0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2340-BIN-002	Acid Roast Cooler Discharge Oversize Bin	85	15	0	85		Oversize material will be diverted to the reject bin via chute, noise generation will be less than 85 dB as per FLS.
2340-CHU-001	Cooler Inlet Shield	85	15	0	85		
2340-CHU-002	Cooler Discharge Housing	85	15	0	85		
2340-CLR-001	Acid Roast Cooler Shell	85	10	0	85		As Per FLS, it is less than
2340-DRV-001	Acid Roast Cooler Main Drive	85	10	0	85	223	As Per FLS, it is less than 85dB
2340-DRV-002	Acid Roast Cooler Auxiliary Drive	85	10	0	85	15,45	As Per FLS, it is less than 85dB
2340-FAN-001	Cooler Jet Pulse Bag Filter Fan	85	10	0	85	5,5	As Per FLS, it is less than 85dB
2340-LUB-001	Gearbox Lubrication System	85	10	0	85	3	As Per FLS, it is less than 85dB
2340-LUB-002	Grease Spray System	85	5	0	85		As Per FLS, it is less than
2340-PMP-001-A	Acid Roast Cooler Cooling Water Return Pump A	90	1	0	90	37	
2340-PMP-002-A	Acid Roast Repulp Pump A	90	1	0	90	30	
2340-PMP-003	Acid Roast Repulp Area Sump Pump	83	1	0	83	3	
2340-SCV-001	Acid Roast Cooler Discharge Screw Feeder	85	15	0	85	11	

2350-FAN-001-A	Acid Roast Off Gas Scrubber ID Fan A	90	2	0	90		
2350-PMP-001-A	Acid Roast Venturi Scrubber Recirculation Pump A	90	1	0	90		
2350-PMP-001-C	Acid Roast Venturi Scrubber Recirculation Pump C	90	1	0	90		
2350-PMP-002-A	Acid Roast Packed Tower Scrubber Recirculation Pump A	90	1	0	90		
2350-PMP-003-A	Acid Roast Wet ESP Blowdown Pump A	90	1	0	90		
2350-PMP-004-A	Acid Roast Scrubber Sodium Hydroxide Dosing Pump A	90	1	0	90		
2350-PMP-005	Acid Roast Scrubber Area Sump Pump	83	1	0	83	3	
2350-STK-001	Acid Roast Scrubber Stack	85	50	0	85		
2360-AGR-001	Acidic Calcine Mixing Tank Agitator	90	5	0	90	75	
2360-HOP-001	Acidic Calcine Reclaim Hopper	90	10	0	90		
2360-PMP-001-A	Acidic Calcine Reclaim Transfer Pump A	90	1	0	90	37	
2360-PMP-002	Acidic Calcine Repulp Area Sump Pump	90	1	0	90	2,2	
2410-AGR-001	Leach Tank Agitator 1	90	5	0	90	33,38	
2410-AGR-002	Leach Tank Agitator 2	90	5	0	90		
2410-AGR-003	Leach Tank Agitator 3	90	5	0	90	33,38	
2410-FAN-001-A	Leach Tank Vent Scrubber Exhaust Fan A	90	2	0	90		
2410-PMP-001-A	Leach Discharge Pump A	86	1	0	86	11	
2410-PMP-002	Leach Area Sump Pump	83	1	0	83	2,2	

2410-PMP-003-A	Leach Tank Vent Scrubber Recirculation Pump A	90	1	0	90		
2420-AGR-001	Leach Filter Feed Tank Agitator	90	5	0	90	106,79	
2420-AGR-002	Leach Filter Wash Water Tank Agitator	90	5	0	90	75	
2420-CHU-001-A	Leach Filter A Discharge Chute	85	15	0	85		
2420-CHU-001-B	Leach Filter B Discharge Chute	85	15	0	85		
2420-PMP-001-A	Leach Filter Feed Pump A	86	1	0	86	18,5	
2420-PMP-002-A	Leach Filtrate Pump A	90	1	0	90		
2420-PMP-003-A	Leach Filter Cloth Wash Collector Pump A	90	1	0	90	9,2	
2420-PMP-004-A	Leach Filter Area Sump Pump	83	1	0	83	7,5	
2420-PMP-004-A	Leach Filter Wash Water Pump A	83	1	0	83	7,5	
2420-PMP-005-A	Leach Filter Seal Water Return Pump A	83	1	0	83	2,2	
2420-PMP-006-A	Leach Filter Wash Water Pump A	90	1	0	90		
2420-PMP-006-B	Vacuum Filtrate Tank Discharge Pump B	90	1	0	90		
2420-PMP-006-C	Vacuum Filtrate Tank Discharge Pump C	90	1	0	90		
2420-PMP-006-D	Vacuum Filtrate Tank Discharge Pump D	90	1	0	90		
2420-PMP-007-A	Leach Filter A 1st Stage Wash Pump A	83	1	0	83	7,5	
2420-PMP-008-A	Leach Filter A 2nd Stage Wash Pump A	83	1	0	83	7,5	

2420-PMP-009-A	Leach Filter A 3rd Stage Wash Pump A	83	1	0	83	7,5	
2420-PMP-010-A	Leach Filter A 4th Stage Wash Pump A	83	1	0	83	7,5	
2420-PMP-011-A	Leach Filter A Belt Wash Pump A	90	1	0	90		
2420-PMP-012	Leach Filter Area Sump Pump	90	1	0	90	2,2	
2420-VAC-001-A	Leach Filter A Vacuum Pump	90	1	0	90	112	
2420-VPK-001	Leach Filter Package	90	1	0	90		
2430-BAG-001	Leach Residue Dryer Baghouse	80		0	80		
2430-BRN-001	Leach Residue Dryer Burner	85	5	0	85		
2430-CLR-001	Leach Residue Cooler	85		0	85		static equipment, cooling with water
2430-DRY-001	Leach Residue Dryer	85	10	0	85		Static equipment
2430-FAN-001	Leach Residue Cooler Fluidising Air Fan	85	2	0	85		
2430-FAN-002	Leach Residue Dryer Combustion Air Fan	85	2	0	85		
2430-FAN-003	Leach Residue Dryer Fluidising Air Fan	85	2	0	85		
2430-FAN-004	Leach Residue Dryer Baghouse I.D. Fan	85	2	0	85		
2430-HOP-001	Leach Residue Dryer Feed Live Bottom Hopper	85	10	0	85		
2430-MSC-001	Leach Residue Dryer and Cooler Ductwork	85		0	85		
2430-PMP-001-A	Leach Residue Cooling Water Return Pump A	86	1	0	86	11	

2430-SCV-001	Leach Residue Dryer Screw Feeder	85	15	0	85		
2430-SCV-002	Leach Residue Dryer Bypass Screw Feeder	85	15	0	85		
2430-SCV-003	Leach Residue Cooler Screw Feeder	85	15	0	85		
2430-SCV-004	Leach Residue Cooler Discharge Screw Feeder	85		0	85		
2430-STK-001	Leach Residue Dryer Baghouse Stack	85	50	0	85		
2430-VPK-001	Leach Residue Dryer Package	85		0	85		Static equipment with centrifugal fans.
2440-CHU-001	Leach Filter Cake Discharge Conveyor Discharge Chute	85	15	0	85		
2440-CHU-002	Leach Residue Live Bottom Hopper Overflow Chute	85		0	85		
2440-CHU-003	Leach Residue Transfer Conveyor Discharge Chute	85	15	0	85		
2440-CHU-005	Leach Residue Tripper Conveyor Discharge Chute	85	15	0	85		
2440-CVR-001	Leach Filter Cake Discharge Conveyor	85	15	0	85	11	Conveyors will not create noise greater than 85dB
2440-CVR-002	Leach Residue Transfer Conveyor	90	15	0	90		
2440-CVR-003	Leach Residue Tripper Conveyor	90	15	0	90		
2440-MIX-001	Leach Residue Solids Mixer	90	10	0	90		
2440-SCV-004	Leach Residue Cooler Discharge Screw Feeder	85	15	0	85		
2440-SCV-005	Leach Residue Solids Mixer Discharge Screw Feeder	85	15	0	85		

2440-TRC-001	Leach Residue Tripper	85	25	0	85		Conveyors will not create noise greater then 85dB
2510-AGR-001	Neutralisation Tank Agitator 1	90	5	0	90	42,14	
2510-AGR-002	Neutralisation Tank Agitator 2	90	5	0	90		
2510-AGR-003	Neutralisation Tank Agitator 3	90	5	0	90		
2510-AGR-004	Neutralisation Tank Agitator 4	90	5	0	90	42,14	
2510-PMP-001-A	Neutralisation Feed Pump A	83	1	0	83	5,5	
2510-PMP-002-A	Neutralisation Discharge Pump A	86	1	0	86	22	
2510-PMP-003	Neutralisation Area Sump Pump	90	1	0	90	2,2	
2510-PMP-004-A	Neutralisation Tank Vent Scrubber Recirculation Pump A	90	1	0	90		
2520-ACO-001-A	Neutralisation Filter Air Compressor A	100	1,5	15	85		
2520-AGR-001	Neutralisation Filter Feed Tank Agitator	90	5	0	90	72,18	
2520-CHU-001-A	Neutralisation Filter Screw Feeder A Discharge Chute	85	15	0	85		

2520-CHU-001-B	Neutralisation Filter Screw Feeder B Discharge Chute	85	15	0	85		
2520-HOP-001-A	Neutralisation Filter Live Bottom Hopper A	90	10	0	90		
2520-PMP-001-A	Neutralisation Filter Feed Pump A	90	1	0	90		
2520-PMP-002-A	Neutralisation Filter Wash Water Pump A	94	1	0	94	400	
2520-PMP-003-A	Neutralisation Filter Filtrate Pump A	86	1	0	86	15	
2520-PMP-004	Neutralisation Filter Area Sump Pump	90	1	0	90		
2520-PMP-005-A	Neutralisation Filter Washate Pump A	90	1	0	90	5,5	
2520-PMP-006-A	Neutralisation Filter Cloth Wash Pump A	94	1	0	94	400	
2520-SCV-001-A	Neutralisation Filter A Discharge Screw Feeder	85	15	0	85	2,2	
2520-SCV-001-B	Neutralisation Filter B Discharge Screw Feeder	85	15	0	85	2,2	
2520-VPK-001	Neutralisation Filter Press Package	90		0	90		
2530-BAG-001	Gypsum Dryer Baghouse	80		0	80		

2530-BIN-001	Gypsum Dust Collection Bin	85		0	85		It is Dust Spillage bin, it will not create much noise due to fall impact.
2530-BRN-001	Gypsum Dryer Burner	85	5	0	85		
2530-DRY-001	Gypsum Dryer	85	10	0	85		Static equipment with centrifugal fans.
2530-FAN-001	Gypsum Drying Recirculated Air Fan	90	2	0	90		
2530-FAN-002	Gypsum Dryer Sleeve Cooling Air Fan	90	2	0	90		
2530-FAN-003	Gypsum Dryer Cooling Air Fan	90	2	0	90		
2530-FAN-004	Gypsum Dryer Baghouse ID Fan	90	2	0	90		
2530-SCV-001	Gypsum Dryer Screw Feeder	85	15	0	85		
2530-SCV-002	Gypsum Dryer Discharge Screw Feeder	85	15	0	85	2,2	
2530-STK-001	Gypsum Baghouse Stack	100	50	10	90		
2530-VPK-001	Gypsum Dryer Package	85		0	85		Static equipment with centrifugal fans.
2610-ACO-001-A	Mg Removal Filter Air Compressor A	95	1,5	10	85		
2610-AGR-002	Mg Removal Tank Agitator 1	90	5	0	90	29,42	
2610-AGR-003	Mg Removal Tank Agitator 2	90	5	0	90	29,42	
2610-AGR-004	Mg Removal Tank Agitator 3	90	5	0	90	29,42	
2610-AGR-005	Mg Removal Tank Agitator 4	90	5	0	90	29,42	

2610-AGR-006	Mg Removal Filter Feed Tank Agitator	90		0	90	75	
2610-PMP-001-A	Impurity Removal Feed Pump A	83	1	0	83	7,5	
2610-PMP-002-A	Impurity Removal Condensate Pump A	94	1	0	94	400	
2610-PMP-003-A	Mg Removal Condensate Pump A	83	1	0	83	1,1	
2610-PMP-004-A	Mg Removal Filter Wash Water Pump A	94	1	0	94	400	
2610-PMP-005-A	Mg Removal Filter Washate Pump A	94		0	94	400	
2610-PMP-006-A	Mg Removal Discharge Pump A	90		0	90	11	
2610-PMP-007-A	Mg Removal Filtrate Pump A	86		0	86	18,5	
2610-PMP-008	Impurity Removal Area Sump Pump	90		0	90	4	
2620-ACO-001-A	Ca Removal Filter Air Compressor A	100	1,5	10	90		
2620-AGR-001	Ca Removal Tank Agitator 1	90	5	0	90	30,01	
2620-AGR-002	Ca Removal Tank Agitator 2	90	5	0	90		
2620-AGR-003	Ca Removal Tank Agitator 3	90	5	0	90		
2620-AGR-004	Ca Removal Tank Agitator 4	90	5	0	90		
2620-AGR-005	Ca Removal Filter Feed Tank Agitator	90		0	90	75	
2620-AGR-006	Impurity Removal Residue Tank Agitator	90	5	0	90	6,72	

2620-PMP-001-A	Ca Impurity Removal Filter Feed Pump A	90	1	0	90		
2620-PMP-002-A	Ca Removal Condensate Pump A	83	1	0	83	1,1	
2620-PMP-004-A	Ca Removal Feed Pump A	90		0	90	15	
2620-PMP-005-A	Ca Removal Discharge Pump A	90		0	90	11	
2630-ACO-001-A	Impurity Removal Filter A Air Compressor	100	1,5	15	85		
2630-AGR-001	Carbonate Removal Agitator	90	5	0	90	27,43	
2630-FAN-001	Degassing Tower Fan	90	2	0	90		
2630-MIX-001	Carbonate Removal Static Mixer	90	10	0	90		
2630-PMP-002	Carbonate Removal Pump	90	1	0	90		
2640-AGR-001	ION EXCHANGE FEED TANK AGITATOR	90	5	0	90	7,5	
2640-MIX-001	Static Mixer A	85	10	0	85		
2640-PMP-001-A	IX Feed Pump A	90	1	15	75	45	
2640-PMP-002	IX Spent Rinse Pump	90	1	15	75	75	
2640-PMP-003	IX Waste Pump	90	1	15	75	75	
2640-PMP-004-A	IX Polish Filtrate Pump A	90		0	90	45	
2640-PMP-005-A	IX Outlet Brine Pump A	90		0	90	45	
2640-PMP-006	IX Area Sump Pump	90		0	90	4	
2710-BLO-001	PLS Evaporator MVR Fan	103	1	15	88	430	
2710-PMP-001-A	PLS Evaporator Feed Pump A	90	1	0	90	30	
2710-PMP-002	PLS Evaporator Recirculation Pump	90	1	0	90	75	
2710-PMP-003-A	PLS Evaporator Product Pump A	90	1	0	90	22	
2710-PMP-004-A	Evaporator Condensate Pump A	90	1	0	90	7,5	

2710-PMP-005	Evaporator Area Sump Pump	83	1	0	83	4	
2720-AGR-001	Causticisation Feed Storage Tank Agitator	90	5	0	90	11	
2720-AGR-002	Causticization Tank 1 Agitator	90		0	90	11	
2720-AGR-003	Causticization Tank 2 Agitator	90		0	90	11	
2720-AGR-004	Causticization Polishing Filter Solids Collection Tank Agitator	90	5	0	90	75	
2720-PMP-001-A	Causticisation Feed Storage Tank Pump A	90	1	0	90	22	
2720-PMP-002-A	Causticisation Solution Pump A	90	1	0	90	37	
2720-PMP-003	Causticisation Area Sump Pump	83	1	0	83	4	
2720-PMP-004-A	Causticisation Sodium Hydroxide Dosing Pump A	90	1	0	90		
2720-PMP-005-A	IX Sodium Hydroxide Dosing Pump A	90	1	0	90		
2720-PMP-006-A	IR Sodium Hydroxide Dosing Pump A	90	1	0	90		
2720-PMP-007	Causticization Polishing Filter Solids Pump	83	1	0	83	3	
2810-ACO-001	Glauber's Salt Refrigeration Compressor	100	1,5	15	85		
2810-AGR-001	DSS Boil-out Tank Agitator	90	5	0	90	15	
2810-AGR-002	DSS Centrate Tank Agitator	90		0	90	5,5	
2810-CRZ-001	DSS Surface Cooled Crystallizer 1	90	10	0	90		
2810-CRZ-002	DSS Surface Cooled Crystallizer 2	90	10	0	90		

2810-CTF-001-A	DSS Centrifuge A	100	5	15	85	75	
2810-EJR-001	Melter Steam Injection Heater	90	15	0	90		
2810-PMP-001-A	DSS Crystalliser Feed Pump A	90	1	0	90	75	
2810-PMP-002	Glauber's Salt Crystalliser Recirculation Pump	90	1	0	90		
2810-PMP-002-A	DSS Wash Pump A	90	1	0	90	30	
2810-PMP-003	DSS Crystallizer 1 Chiller Glycol Circulation Pump	94	1	0	94	400	
2810-PMP-004	DSS Crystallizer 1 Circulation Pump	90	1	0	90	250	
2810-PMP-005	Glauber's Salt Dissolver Recirculation Pump	90	1	0	90		
2810-PMP-005-A	DSS Crystallizer 1 Slurry Pump A	90	1	0	90	55	
2810-PMP-006	DSS Crystallizer 1 Drain Pump	90	1	0	90	75	
2810-PMP-007	DSS Crystallizer 2 Chiller Glycol Circulation Pump	94	1	0	94	400	
2810-PMP-008	DSS Crystallizer 2 Circulation Pump	94	1	0	94	250	
2810-PMP-009-A	DSS Crystallizer 2 Slurry Pump A	90	1	0	90	55	
2810-PMP-010	DSS Crystallizer 2 Drain Pump	90	1	0	90	75	
2810-PMP-011	DSS Crystallizer 3 Chiller Glycol Circulation Pump	94	1	0	94	400	
2810-PMP-012	DSS Crystallizer 3 Circulation Pump	94	1	0	94	250	
2810-PMP-013-A	DSS Crystallizer 3 Slurry Pump A	90	1	0	90	55	

2810-PMP-014	DSS Crystallizer 3 Drain Pump	90	1	0	90	75	
2810-PMP-015	DSS Boil-out Return Pump	90	1	0	90	75	
2810-PMP-016-A	DSS Centrate Pump A	90	1	0	90	22	
2810-PMP-017-A	DSS Filtrate Pumps A	90	1	0	90	22	
2810-PMP-018	Melter Recirculation Pump	90	1	0	90	30	
2810-PMP-019-A	Melter Transfer Pump A	90		0	90	11	
2810-PMP-020-A	First Stage Chilled Glycol Supply Pump A	94	1	0	94	250	
2810-PMP-021-A	Second Stage Chilled Glycol Supply Pump A	94	1	0	94	315	
2810-PMP-022	Glauber's Salt Area Sump Pump	90	1	0	90	4	
2810-SCP-001	DSS Head Tank Scraper	88	10	0	88	7,5	
2810-WCH-001-A	First Stage DSS Glycol Chiller Unit 1	100	1,5	15	85	315	
2810-WCH-001-B	First Stage DSS Glycol Chiller Unit 2	100	1,5	15	85	315	
2810-WCH-001-C	First Stage DSS Glycol Chiller Unit 3	100	1,5	15	85	315	
2810-WCH-001-D	First Stage DSS Glycol Chiller Unit Spare	100	1,5	15	85	315	
2810-WCH-002-A	Second Stage DSS Glycol Chiller Unit 1	100	1,5	15	85	400	
2810-WCH-002-B	Second Stage DSS Glycol Chiller Unit 2	100	1,5	15	85	400	
2810-WCH-002-C	Second Stage DSS Glycol Chiller Unit 3	100	1,5	15	85	400	
2810-WCH-002-D	Second Stage DSS Glycol Chiller Unit Spare	100	1,5	15	85	400	
2820-AGR-001	Anhyd. SS Cryst. Feed Storage Tank Agitator	90	5	0	90	11	
2820-AGR-002	ASS Centrate Tank Agitator	90	5	0	90	7,5	

2820-AGR-003	ASS Bleed Storage Tank Agitator	90	5	0	90	7,5	
2820-AGR-004	ASS Boil-out Tank Agitator	90		0	90	7,5	
2820-BLO-001	ASS CRYSTALLIZER MVR 1	105	8	15	90	1000	
2820-BLO-002	ASS CRYSTALLIZER MVR 2	105	8	15	90	1000	
2820-CRZ-001	ASS Crystallizer	90	10	0	90		
2820-CTF-001-A	ASS Centrifuge A	100	5	15	85	55	
2820-MIX-001-A	ASS Feed Static Mixer A	90	10	0	90		
2820-PMP-001-A	Anhyd. SS Cryst. Feed Pump A	90	1	0	90	15	
2820-PMP-002	Sodium Sulphate Crystalliser Recirculation Pump	90	1	0	90		
2820-PMP-002-A	ASS Centrate Tank Pump A	90		0	90	11	
2820-PMP-003	ASS Crystallizer Recirculation Pump	94	1	0	94	315	
2820-PMP-004	Sodium Sulphate Centrate Pump	90	1	0	90		
2820-PMP-004-A	ASS E-Leg Pump A	90	1	0	90	11	
2820-PMP-005	Sodium Sulphate Crystalliser Purge Pump	90	1	0	90		
2820-PMP-005-A	ASS Crystalliser Bleed Pump A	90		0	90	3	
2820-PMP-006-A	ASS Storage Tank Pump A	90	1	0	90	3	
2820-PMP-007	Sodium Sulphate Condensate Transfer Pump	90	1	0	90		
2820-PMP-007-A	ASS Condensate Pump A	90		0	90	11	
2820-PMP-008	ASS Boil-out Return Pump	90	1	0	90	37	
2820-PMP-009	ASS Drain Pump	90	1	0	90	75	
2820-PMP-010	Sodium Sulphate Area Sump Pump	83	1	0	83	4	
2820-SCP-001	ASS Head Tank Scraper	88	10	0	88	5,5	

2830-BLO-001	Sodium Sulphate Pneumatic Conveyor Blower	95	1	0	95	30	
2830-CVR-001	Sodium Sulphate Pneumatic Conveyor	90	15	0	90		
2830-DRY-001	ASS Dryer Chamber	90	10	0	90	7,5	
2830-FAN-001	ASS Dryer Scrubber Air Fan	95	2	0	95	90	
2830-FAN-002	ASS Dryer Air Heater Fan	93	2	0	93	30	
2830-FAN-003	ASS Dryer Air Cooler Fan	93	2	0	93	30	
2830-MIX-001-A	ASS Paddle Mixer A	90	10	0	90	5,5	
2830-PMP-001-A	ASS Dryer Scrubber Pump A	90	1	0	90	11	
2830-PMP-002-A	ASS Dryer Condensate Tank Pump A	90	1	0	90	2,2	
2830-SCV-001	Sodium Sulfate Dryer Product Discharge Screw Conveyor	85		0	85	5,5	
2830-SCV-001-A	Sodium Sulphate Dryer Discharge Screw Feeder A	85	15	0	85	5,5	
2830-SCV-002-A	ASS Dryer Feed Screw Conveyor A	85		0	85	5,5	
2830-VPK-001	Sodium Sulphate Conveying Package	90		0	90		
2840-CVR-001	Sodium Sulphate Product Bag Conveyor	90	15	0	90		
2840-FDR-001	Sodium Sulphate Empty Bag Feeder	90	10	0	90		
2840-VTR-001	Sodium Sulphate Product Bin Activator	90	10	0	90	100	
2910-AGR-001	CRUDE LHM CRYST. FEED TANK AGITATOR	90	5	0	90	11	
2910-AGR-002	Crude LHM Recirculation Storage Tank Agitator	90		0	90	4	

2910-AGR-003	Crude LHM Hydrocyclone Overflow Tank Agitator	90	5	0	90	5	
2910-AGR-004	Crude LHM Hydrocyclone Underflow Tank Agitator	90	5	0	90	7,5	
2910-AGR-005	Crude LHM Centrate Tank Agitator	90	5	0	90	5,5	
2910-AGR-006	Crude LHM Boil-Out Tank Agitator	90		0	90	11	
2910-AGR-007	LHM Acid Wash Tank Agitator	90		0	90	11	
2910-BLO-001	Crude LHM Crystallizer MVR 1	105	8	15	90	1600	acoustic enclosure
2910-BLO-002	Crude LHM Crystallizer MVR 2	105	8	15	90	1600	acoustic enclosure
2910-CRZ-001	Crude LHM Crystallizer	90	10	0	90		
2910-CTF-001-A	Crude LHM Centrifuge A	100	5	15	85	75	
2910-FAN-001	Lithium Hydroxide 1st Stage MVR Fan 1	90	2	0	90		
2910-PMP-001-A	Crude LHM Crystallization Feed Pump A	90	1	0	90	30	
2910-PMP-002	Lithium Hydroxide 1st stage Recirculation Pump	90	1	0	90	22	
2910-PMP-002-A	Crude LHM Recirculation Storage Tank Pump A	90		0	90	11	
2910-PMP-003	Crude LHM Crystallizer Recirculation Pump	95	1	0	95	600	
2910-PMP-004	Lithium Hydroxide 1st Stage Centrate Pump	90	1	0	90		
2910-PMP-004-A	Crude LHM Hydrocyclone Feed Pump A	90	1	0	90	22	
2910-PMP-005	Lithium Hydroxide 1st Stage Dissolver Pump	90	1	0	90		

2910-PMP-005-A	Crude LHM Hydrocyclone Overflow Pump A	90	1	0	90	15	
2910-PMP-006-A	Crude LHM Hydrocyclone Underflow Pump A	90	1	0	90	22	
2910-PMP-007	Lithium Hydroxide Condensate Pump	90	1	0	90	27,5	
2910-PMP-007-A	Crude LHM Crystallizer E-LEG Pump A	90		0	90	22	
2910-PMP-008-A	Crude LHM Centrate Tank Pump A	90	1	0	90	30	
2910-PMP-009-A	Crude LHM Condensate Pump A	90	1	0	90	15	
2910-PMP-010	Crude LHM Crystallizer Drain Pump	90		0	90	90	
2910-PMP-010-A	Crude E-Leg Pump A	86	1	0	86	22	
2910-PMP-011	1st Stage Seal Water Return Pump	90	1	0	90	45	
2910-PMP-012	Lithium Hydroxide 1st Stage Area Sump Pump	90	1	0	90	90	
2910-PMP-014-A	Clean Condensate Storage Tank Pump A To Header	90		0	90	90	
2910-PMP-015-A	MP Clean Condensate Pump A	90		0	90	15	
2910-PMP-016	1st Stage Seal Water Return Pump	90		0	90	3	
2910-PMP-017	Lithium Hydroxide 1st Stage Area Sump Pump	90		0	90	4	
2910-SCP-001	Crude Scraper	88	10	0	88	5,5	
2910-VAC-001-A	Crude LHM Vacuum Pump A	90	1	0	90	22	
2910-VAC-002	LHM Booster Vacuum Pump	100	1	15	85	75	acoustic enclosure
2920-AGR-001	Dissolution Tank Agitator	90	5	0	90	11	

2920-AGR-002	Pure LHM Centrate Tank Agitator	90	5	0	90	11	
2920-AGR-003	Pure LHM Boil-Out Tank Agitator	90		0	90	11	
2920-AGR-004	LHM Crystal Predissolution Tank Agitator	90		0	90	18,5	
2920-BLO-001	PURE LHM CRYSTALLIZER MVR 1	103	8	15	88	1000	
2920-BLO-002	PURE LHM CRYSTALLIZER MVR 2	103	8	15	88	1000	
2920-CRZ-001	Pure LHM Crystallizer	90	10	0	90		
2920-CTF-001-A	Pure LHM Centrifuge A	100	5	15	85	45	
2920-PMP-001	Lithium Hydroxide 2nd Stage Crystallisation Feed Pump	90	1	0	90		
2920-PMP-001-A	Pure Crystallizer Feed Pump A	90	1	0	90	18,5	
2920-PMP-002	Pure LHM Recirculation Pump	94	1	0	94	300	
2920-PMP-003	Lithium Hydroxide 2nd Stage Condensate Pump	90	1	0	90		
2920-PMP-003-A	Pure E-Leg Pump A	90	1	0	90	22	
2920-PMP-004-A	Pure LHM Centrate Pump A	90	1	0	90	30	
2920-PMP-005-A	Pure LHM Purge Pump A	90	1	0	90	15	
2920-PMP-006-A	Pure LHM Condensate Pump A	90	1	0	90	7,5	
2920-PMP-007	PURE LHM CRYSTALLIZER DRAIN PUMP	90	1	0	90	90	
2920-PMP-008-A	Pure LHM Predissolution Tank Pump A	90		0	90	18,5	
2920-PMP-009	Pure LHM Area Sump Pump	90	1	0	90	45	

2920-PMP-010	2nd Stage Seal Water Return Pump	90		0	90	3	
2920-PMP-011	Pure LHM Area Sump Pump	90		0	90	4	
2920-SCP-001	PURE LHM HEAD TANK SCRAPER	88	10	0	88	5,5	
2920-VAC-001-A	Pure LHM Vacuum Pump A	90	1	0	90	15	
2930-BUE-001	LHM Product Bucket Elevator	90	15	0	90	2,2	
2930-CHU-001	LHM Product Bucket Elevator Feed Chute	85	15	0	85		
2930-DRY-001	LHM Dryer / Cooler	95	10	0	95	15	
2930-FAN-001	LHM Dryer Air Fan	100	2	10	90	200	
2930-FAN-002	Lithium Hydroxide Dryer Cooling Air Fan	90	2	0	90	TBC	
2930-PMP-001-A	LHM Dryer Scrubber Pump 1 A	90	1	0	90	4	
2930-PMP-002-A	LHM Dryer Scrubber Pump 2 A	90	1	0	90	4	
2930-PMP-003-A	Lithium Hydroxide Dryer Cooling Water Return Pump A	83	1	0	83	4	
2930-PMP-008-A	LHM Dryer Condensate Pump A	86	1	0	86	11	
2930-SCV-001-A	LHM Dryer Feed Screw Conveyor A	85	15	0	85	7,5	
2930-SCV-001-B	LHM Dryer Feed Screw Conveyor B	85	15	0	85	7,5	
2930-SCV-002	LHM Product Screw Feeder	85	15	0	85	7,5	
2930-SCV-003-A	LHM PRODUCT CONVEYOR A	85	15	0	85		
2930-WCH-001	LHM Scrubber Chiller	100	1,5	15	85	160	acoustic enclosure

2940-CVR-001	LHM Product Bag Conveyor	90		0	90	2,2	
2940-FDR-001	Lithium Hydroxide Product Bag Feeder	90	10	0	90		
2940-VPK-001	LHM Bagging Package	90		0	90		
2940-VTR-001	Lithium Hydroxide Product Activator	90	10	0	90	100	
2960-AGR-001-A	Carbonation Reactor Agitator A	90		0	90	11	
2960-AGR-002	Carbonation Reactor Overflow Tank Agitator	90		0	90	4	
2960-AGR-003	Li ₂ CO ₃ Purge Tank Agitator	90		0	90	75	
2960-AGR-004	Lithium Carbonate Slurry Tank Agitator	90		0	90	75	
2960-AGR-005	Acid Dilution Tank Agitator	90		0	90	75	
2960-AGR-006	Centrate Acidification Tank Agitator	90		0	90	75	
2960-AGR-007	Acid Releach Tank Agitator	90		0	90	75	
2960-CTF-001-A	Li ₂ CO ₃ Centrifuge A	95		0	95	90	
2960-PMP-001-A	Carbonation Reactor Pump A	90		0	90	2,2	
2960-PMP-002-A	Li ₂ CO ₃ Centrate Pump A	83		0	83	3	
2960-PMP-003-A	Li ₂ CO ₃ Reslurry Pump A	83		0	83	3	
2960-PMP-005-A	ACID RELEACH PUMP A	90		0	90		
2960-PMP-006-A	Centrate Acidification Transfer Pump A	90		0	90		
2960-PMP-007-A	Lithium Sulphate Transfer Pump A	90		0	90		
2960-PMP-008	Purge Treatment Area Sump Pump	90		0	90	4	
2970-AGR-001	Lithium Hydroxide Mixing Tank Agitator	90	5	0	90	75	

2970-HOP-001	LMH Unloading Hopper	90	10	0	90		
2970-PMP-001	Lithium Hydroxide Transfer Pump	83	1	0	83	2,2	
2970-PMP-002	Lithium Hydroxide Area Sump Pump	83	1	0	83	4	
2970-SCV-001	LMH Mixing Tank Screw Feeder	85	15	0	85		
3110-PMP-001	Limestone Area Sump Pump	83	1	0	83	2,2	
3120-AGR-001	Limestone Mixing Tank Agitator	90	5	0	90		
3120-PMP-001	Limestone Slurry Transfer Pump	90	1	0	90		
3120-SCV-001-A	Limestone Silo A Screw Feeder	85	15	0	85		
3120-SCV-001-B	Limestone Silo B Screw Feeder	85	15	0	85		
3130-AGR-001	Limestone Storage Tank Agitator	90	5	0	90	19,22	
3130-PMP-001-A	Limestone Slurry Circulation Pump A	86	1	0	86	22	
3210-PMP-001	Sodium Hydroxide Unloading Pump	83	1	0	83	7,5	
3210-PMP-002	Sodium Hydroxide Area Sump Pump	83	1	0	83	2,2	
3220-PMP-002-A	Sodium Hydroxide Transfer Pump A	83	1	0	83	3	
3410-PMP-001	Sulphuric Acid Unloading Pump	83	1	0	83	7,5	
3410-PMP-002	Sulphuric Acid Area Sump Pump	83	1	0	83	2,2	
3420-AGR-002	Acid Dilution Tank Agitator	90		0	90		

3420-DRY-001-A	Sulphuric Acid Storage Tank Dryer A	95		0	95		
3420-PMP-001-A	Sulphuric Acid Transfer Pump A	83	1	0	83	1,5	
3420-PMP-002-A	Dilute Sulphuric Acid Transfer Pump A	90		0	90	3	
3500-VPK-001	Sodium Carbonate Material Handling Package	90		0	90		
3510-AGR-001	Sodium Carbonate Mixing Tank Agitator	90	5	0	90	11,51	
3510-HOP-001	Sodium Carbonate Unloading Hopper	90	10	0	90		
3510-PMP-001	Sodium Carbonate Transfer Pump	83	1	0	83	5,5	
3510-PMP-002	Sodium Carbonate Area Sump Pump	83	1	0	83	2,2	
3510-SCV-001	Sodium Carbonate Mixing Tank Screw Feeder	85	15	0	85		
3520-AGR-001	Sodium Carbonate Storage Tank Agitator	90	5	0	90	69,05	
3520-PMP-001-A	Sodium Carbonate Dosing Pump A	83	1	0	83	0,25	
3520-PMP-001-C	Sodium Carbonate Dosing Pump C	83		0	83	0,25	
3600-VPK-001	Hydrochloric Acid System	95		0	95		
3610-PMP-001	Hydrochloric Acid Unloading Pump	83	1	0	83	5,5	
3610-PMP-002	Hydrochloric Acid Area Sump Pump	83	1	0	83	3	
3620-PMP-001-A	Hydrochloric Acid Dosing Pump A	83	1	0	83	0,12	

3620-PMP-002	Hydrochloric Acid Fume Scrubber Recirculation Pump	90	1	0	90		
3710-AGR-001	Diatomaceous Earth Mixing Tank Agitator	90	5	0	90	12,29	
3710-HOP-001	Diatomaceous Earth Unloading Hopper	90	10	0	90		
3710-PMP-001	Diatomaceous Earth Transfer Pump	83	1	0	83	5,5	
3710-PMP-002	Diatomaceous Earth Area Sump Pump	83	1	0	83	2,2	
3710-SCV-001	Diatomaceous Earth Mixing Tank Screw Feeder	85	15	0	85		
3720-AGR-001	Diatomaceous Earth Storage Tank Agitator	90	5	0	90	75	
3720-AGR-002	Diatomaceous Earth Precoat Tank Agitator	90		0	90	10,46	
3720-PMP-002-A	Diatomaceous Earth Circulation Pump A	90	1	0	90		
4110-MIX-001	Treated Water Tank Line Mixer	90	3	0	90		
4110-MIX-002	Truck Wash Tank Line Mixer	90	3	0	90		
4110-PMP-001-A	Raw Water Pump A	90	1	0	90	90	
4110-PMP-002-A	Gland Water Pump A	90	1	0	90		
4110-PMP-003	Truck Wash Water Pump	83	1	0	83	0,75	
4110-PMP-004	Truck Wash Area Sump Pump	90	1	0	90		
4110-PMP-005-A	Seal Water Pump A	86	1	0	86	30	
4110-WTP-001	Raw Water Treatment Package	105	2	15	90		
4120-PMP-001-A	Process Water Pump A	90	1	0	90	90	
4130-PMP-001-A	Boiler Feed Water Pump A	90	1	0	90		

4130-WTP-001	Boiler Feed Water Treatment Plant	105	2	15	90		
4140-MIX-001	Potable Water Tank Line Mixer	90		0	90		
4140-PMP-001-A	Safety Shower Water Pump A	83	1	0	83	5,5	
4140-PMP-002-A	Potable Water Distribution Pump A	83	1	0	83	7,5	
4150-PMP-001	Electric Firewater Pump	90	1	0	90		
4150-PMP-002	Diesel Firewater Pump	90	1	0	90		
4150-PMP-003	Jockey Firewater Pump	90	1	0	90		
4160-CTW-001-A	Adiabatic Cooler A	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-B	Adiabatic Cooler B	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-C	Adiabatic Cooler C	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-D	Adiabatic Cooler D	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-E	Adiabatic Cooler E	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-F	Adiabatic Cooler F	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-G	Adiabatic Cooler G	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-H	Adiabatic Cooler H	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-I	Adiabatic Cooler I	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-J	Adiabatic Cooler J	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-K	Adiabatic Cooler K	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-L	Adiabatic Cooler L	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-M	Adiabatic Cooler M	103	2,5	15	88	59	silencer/acoustic enclosure
4160-CTW-001-N	Adiabatic Cooler N	103	2,5	15	88	59	silencer/acoustic enclosure
4160-PMP-002-A	Side Stream Filter Circulating Pump A	90	1	0	90		
4160-PMP-002-C	Side Stream Filter Circulating Pump C	90	1	0	90		
4160-PMP-002-D	Side Stream Filter Circulating Pump D	90	1	0	90		
4160-PMP-002-E	Side Stream Filter Circulating Pump E	90	1	0	90		

4160-PMP-004-A	Antiscallant Dosing Pump A	90	1	0	90		
4160-PMP-005-A	Reverse Osmosis Water Pump A	86		0	86	18,5	
4160-WTP-001	Cooling Water Treatment Package	98	2	10	88		
4170-DEA-001	Deaerator Boiler Package	95	25	0	95		
4170-PMP-001-A	Deaerator Feed Pump A	90	1	0	90		
4170-PMP-002-A	Deaerator Circulation Pump A	90	1	0	90		
4170-STK-001	Boiler Stack	85		0	85		
4180-PMP-001-A	Process Condensate Pump A	90	1	0	90		
4190-PMP-001-A	Waste Water Feed Pump A	86	1	0	86	11	
4190-PMP-002	Waste Water Brine Pump	90	1	0	90		
4190-PMP-003-A	Stormwater Transfer Pump A	90		0	90	3	
4190-PMP-003-C	Stormwater Collection Sump Pump C	90		0	90	3	
4190-PMP-003-D	Stormwater Collection Sump Pump D	90		0	90	3	
4190-WTP-001	Truck Wash Oily Water Treatment Plant	85	2	0	85		
4190-WTP-002	Waste Water Treatment Plant	105	2	15	90		
4210-ACO-001-A	Air Compressor A	105	1,5	15	90		
4210-ACO-001-B	Air Compressor B	105	1,5	15	90		
4210-ACO-001-C	Air Compressor C	105	1,5	15	90		
4210-ACO-001-D	Air Compressor D	105	1,5	15	90		
4210-DRY-001	Instrument Air Dryer	100	2	15	85		
5210-PMP-001-A	Diesel Distribution Pump A	90	1	0	90		
5210-PMP-004	API 610 Centrifugal pump, horizontal	90		0	90		

5210-PMP-005	API 610 Centrifugal pump, horizontal	90		0	90		
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