

PA SYSTEM CCT CONFIGURATION

SITE: DUVHA POWER STATION



LINE	AREA	UNIT	LEVEL	IN	HORN SPEAKER			CEILING SPKR.			BOX W/O ATT.			BI-DI SPEAKER			TOTAL	CCT	AMP	SPARE		CCT	1-CH	1-CH	1-CH
				OUT	QTY.	WATT	LOAD	QTY.	WATT	LOAD	QTY.	WATT	LOAD	QTY.	WATT	LOAD	LOAD	LOAD	CAP.	WATT	%	NUM.	500W	300W	150W

ZONE 1																									
1	Boiler	1	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	1A	1		
2	Boiler	1	67ML	IN	8	15	120			0			0			0	120								
3	Boiler	1	57ML	IN	8	15	120			0			0			0	120								
4	Boiler	1	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	1B	1		
5	Boiler	1	18ML	IN	6	15	90			0			0			0	90								
6	Boiler	1	16ML	IN	10	15	150			0			0			0	150	270	500	230	46,00%	1C	1		
7	Boiler	1	0ML	IN	8	15	120			0			0			0	120								
8	Turbine	1	16ML	IN	20	15	300			0			0			0	300	300	500	200	40,00%	1D	1		
9	Turbine	1	9ML	IN	15	15	225			0			0			0	225	225	300	75	25,00%	1E		1	
10	Turbine BACK	1	0ML	IN	17	15	255			0			0			0	255	255	500	245	49,00%	1F	1		
11	Turbine FRONT	1	0ML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	1G	1		
12	Diesel +	1	0ML	IN	8	15	120			0			0			0	120								
13	Ash Precips	1	0ML	IN	12	15	180			0			0			0	180	180	300	120	40,00%	1H		1	
14	Aux Bay	1	33ML	IN	3	15	45			0			0			0	45	389	500	111	22,20%	1I	1		
15	Aux Bay	1	28ML	IN	4	15	60			0			0			0	60								
16	Aux Bay STAIRWAY	1	20ML	IN	2	10	20			0			0			0	20								
17	Aux Bay OFFICES	1	20ML	IN		10	0	10	3	30	3	6	18	1	9	9	57								
17	Aux Bay STAIRWAY	1	16ML	IN	2	10	20			0			0			0	20								
18	Aux Bay	1	16ML	IN		10	0	13	3	39			0	2	9	18	57								
18	Aux Bay S/WAY + EQUIP. ROOM	1	12ML	IN	3	10	30			0			0			0	30								
19	Aux Bay	1	12ML	IN		10	0			0	3	6	18	1	9	9	27	200	300	100	33,33%	1J		1	
19	Aux Bay	1	6ML	IN	7	10	70	1	3	3			0			0	73								
20	Aux Bay	1	0ML	IN	10	10	100			0			0			0	100								
20	Cable Tunnel	1	-5ML	IN	10	10	100			0			0			0	100								
		TOTALS		→	189		2665	24		72	6		36	4		36	2809	2809	4400	1591	SUB-TOTAL		7	3	0
																		ADD REMOTE MIC		STANDBY AMPS.		1	1		
																				TOTAL AMPS.		8	4	0	

ZONE 2																										
1	Boiler	2	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	2A	1			
2	Boiler	2	67ML	IN	8	15	120			0			0			0	120									
3	Boiler	2	57ML	IN	8	15	120			0			0			0	120									
4	Boiler	2	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	2B	1			
5	Boiler	2	18ML	IN	6	15	90			0			0			0	90									
6	Boiler	2	16ML	IN	10	15	150			0			0			0	150	270	500	230	46,00%	2C	1			
7	Boiler	2	0ML	IN	8	15	120			0			0			0	120									
8	Turbine	2	16ML	IN	20	15	300			0			0			0	300	300	500	200	40,00%	2D	1			
9	Turbine	2	9ML	IN	15	15	225			0			0			0	225	225	300	75	25,00%	2E		1		

10	Turbine BACK	2	OML	IN	17	15	255			0			0			0	255	255	500	245	49,00%	2F	1		
11	Turbine FRONT	2	OML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	2G	1		
12	Diesel +	2	OML	IN	8	15	120			0			0			0	120								
13	Ash Precips	2	0ml	IN	12	15	180			0			0			0	180	180	300	120	40,00%	2H		1	
14	Aux Bay	2	33ML	IN	3	15	45			0			0			0	45	366	500	134	26,80%	2I	1		
15	Aux Bay	2	28ML	IN	4	15	60			0			0			0	60								
16	Aux Bay STAIRWAY	2	20ML	IN	2	10	20			0			0			0	20								
17	Aux bay	2	20ML	IN		10	0	24	3	72	1	6	6			0	78								
17	Aux Bay STAIRWAY	2	16ML	IN	2	10	20			0			0			0	20								
18	Aux bay	2	16ML	IN	1	10	10	15	3	45	1	6	6			0	61								
18	Aux Bay S/WAY + EQUIP. ROOM	2	12ML	IN	4	10	40			0			0			0	40								
19	Aux bay	2	12ML	IN		10	0	14	3	42			0			0	42	203	300	97	32,33%	2J		1	
19	Aux Bay	2	6ML	IN	5	10	50	1	3	3			0			0	53								
20	Cable Tunnel	2	OML	IN	10	10	100			0			0			0	100								
20	Aux Bay	2	-5ML	IN	5	10	50			0			0			0	50								

TOTALS	→	184		2615	54		162	2		12	0		0	2789	2789	4400	1611	SUB-TOTAL	7	3	0
																		STANDBY AMPS.	1	1	
																		TOTAL AMPS.	8	4	0

ZONE 3																											
1	Boiler	3	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	3A	1				
2	Boiler	3	67ML	IN	8	15	120			0			0			0	120										
3	Boiler	3	57ML	IN	8	15	120			0			0			0	120										
4	Boiler	3	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	3B	1				
5	Boiler	3	18ML	IN	6	15	90			0			0			0	90										
6	Boiler	3	16ML	IN	10	15	150			0			0			0	150										
7	Boiler	3	0ML	IN	8	15	120			0			0			0	120	270	500	230	46,00%	3C	1				
8	Turbine	3	16ML	IN	20	15	300			0			0			0	300										
9	Turbine	3	9ML	IN	15	15	225			0			0			0	225										
10	Turbine BACK	3	0ML	IN	17	15	255			0			0			0	255	255	500	245	49,00%	3F	1				
11	Turbine FRONT	3	0ML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	3G	1				
12	Diesel +	3	0ML	IN	8	15	120			0			0			0	120										
13	Ash Precips	3	0ML	IN	12	15	180			0			0			0	180	180	300	120	40,00%	3H		1			
14	Aux Bay	3	33ML	IN	3	15	45			0			0			0	45	390,5	500	109,5	21,90%	3I	1				
15	Aux Bay	3	28ML	IN	4	15	60			0			0			0	60										
16	Aux Bay STAIRWAY	3	20ML	IN	2	10	20			0			0			0	20										
17	Aux bay	3	20ML	IN		10	0	6	4,5	27	5	6	30	3	9	27	84										
17	Aux Bay STAIRWAY	3	16ML	IN	2	10	20			0			0			0	20										
18	Aux bay	3	16ML	IN		10	0	12	4,5	54			0	1	9	9	63										
18	Aux Bay S/WAY + EQUIP. ROOM	3	12ML	IN	4	10	40			0			0			0	40										
19	Aux bay	3	12ML	IN		10	0	13	4,5	58,5			0			0	58,5	204,5	300	95,5	31,83%	3J		1			
19	Aux Bay	3	6ML	IN	5	10	50	1	4,5	4,5			0			0	54,5										
20	Aux Bay	3	0ML	IN	5	10	50			0			0			0	50										
21	Cable Tunnel	3	-5ML	IN	10	10	100			0			0			0	100										

TOTALS	→	183		2605	32		144	5		30	4		36	2815	2815	4400	1585	SUB-TOTAL	7	3	0
																		STANDBY AMPS.	1	1	

TOTAL AMPS.	8	4	0
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ZONE 4																									
1	Boiler	4	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	4A	1		
2	Boiler	4	67ML	IN	8	15	120			0			0			0	120								
3	Boiler	4	57ML	IN	8	15	120			0			0			0	120								
4	Boiler	4	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	4B	1		
5	Boiler	4	18ML	IN	6	15	90			0			0			0	90								
6	Boiler	4	16ML	IN	10	15	150			0			0			0	150	270	500	230	46,00%	4C	1		
7	Boiler	4	0ML	IN	8	15	120			0			0			0	120								
8	Turbine	4	16ML	IN	20	15	300			0			0			0	300	300	500	200	40,00%	4D	1		
9	Turbine	4	9ML	IN	15	15	225			0			0			0	225	225	300	75	25,00%	4E		1	
10	Turbine BACK	4	0ML	IN	17	15	255			0			0			0	255	255	500	245	49,00%	4F	1		
11	Turbine FRONT	4	0ML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	4G	1		
12	Diesel +	4	0ML	IN	8	15	120			0			0			0	120								
13	Ash Precips	4	0ML	IN	12	15	180			0			0			0	180	180	300	120	40,00%	4H		1	
14	Aux Bay	4	33ML	IN	3	15	45			0			0			0	45	364	500	136	27,20%	4I	1		
15	Aux Bay	4	28ML	IN	4	15	60			0			0			0	60								
16	Aux Bay STAIRWAY	4	20ML	IN	3	10	30			0			0			0	30								
17	Aux bay	4	20ML	IN		10	0	21	3	63			0	1	9	9	72								
17	Aux Bay STAIRWAY	4	16ML	IN	3	10	30			0			0			0	30								
18	Aux bay	4	16ML	IN		10	0	18	3	54	1	6	6			0	60								
18	Aux Bay S/WAY + EQUIP. ROOM	4	12ML	IN	4	10	40			0			0			0	40	203	300	97	32,33%	4J		1	
19	Aux bay	4	12ML	IN		10	0	9	3	27			0			0	27								
19	Aux Bay	4	6ML	IN	5	10	50	1	3	3			0			0	53								
20	Aux Bay	4	0ML	IN	5	10	50			0			0			0	50	203	300	97	32,33%	4J		1	
21	Cable Tunnel	4	-5ML	IN	10	10	100			0			0			0	100								

TOTALS	→	185		2625	49		147	1		6	1		9	2787	2787	4400	1613	SUB-TOTAL	7	3	0
																		STANDBY AMPS.	1	1	
																		TOTAL AMPS.	8	4	0

ZONE 5																									
1	Boiler	5	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	5A	1		
2	Boiler	5	67ML	IN	8	15	120			0			0			0	120								
3	Boiler	5	57ML	IN	8	15	120			0			0			0	120								
4	Boiler	5	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	5B	1		
5	Boiler	5	18ML	IN	6	15	90			0			0			0	90								
6	Boiler	5	16ML	IN	10	15	150			0			0			0	150	270	500	230	46,00%	5C	1		
7	Boiler	5	0ML	IN	8	15	120			0			0			0	120								
8	Turbine	5	16ML	IN	20	15	300			0			0			0	300	300	500	200	40,00%	5D	1		
9	Turbine	5	9ML	IN	15	15	225			0			0			0	225	225	300	75	25,00%	5E		1	
10	Turbine BACK	5	0ML	IN	17	15	255			0			0			0	255	255	500	75	15,00%	5F	1		
11	Turbine FRONT	5	0ML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	5G	1		
12	Diesel +	5	0ML	IN	8	15	120			0			0			0	120								
13	Ash Precips	5	0ML	IN	12	15	180			0			0			0	180	180	300	120	40,00%	5H		1	

14	Aux Bay	5	33ML	IN	3	15	45			0			0			0	45	309	500	191	38,20%	5I	1		
15	Aux Bay	5	28ML	IN	4	15	60			0			0			0	60								
16	Aux Bay STAIRWAY	5	20ML	IN	2	10	20			0			0			0	20								
17	Aux bay	5	20ML	IN		10	0	11	3	33	2	6	12	1	9	9	54								
17	Aux Bay STAIRWAY	5	16ML	IN	3	10	30			0			0			0	30								
18	Aux bay	5	16ML	IN		10	0	8	3	24			0	2	9	9	33								
18	Aux Bay S/WAY + EQUIP. ROOM	5	12ML	IN	4	10	40			0			0			0	40								
19	Aux bay	5	12ML	IN		10	0	6	3	18			0	1	9	9	27	203	300	97	32,33%	5J		1	
19	Aux Bay	5	6ML	IN	5	10	50	1	3	3			0			0	53								
20	Aux Bay	5	0ML	IN	5	10	50			0			0			0	50								
21	Cable Tunnel	5	-5ML	IN	10	10	100			0			0			0	100								

TOTALS	→	184		2615	26		78	2		12	4		27	2732	2732	4400	1498	SUB-TOTAL	7	3	0
																		STANDBY AMPS.	1	1	
																		TOTAL AMPS.	8	4	0

ZONE 6																									
1	Boiler	6	76ML	IN	6	15	90			0			0			0	90	330	500	170	34,00%	6A	1		
2	Boiler	6	67ML	IN	8	15	120			0			0			0	120								
3	Boiler	6	57ML	IN	8	15	120			0			0			0	120								
4	Boiler	6	33ML	IN	19	15	285			0			0			0	285	375	500	125	25,00%	6B	1		
5	Boiler	6	18ML	IN	6	15	90			0			0			0	90								
6	Boiler	6	16ML	IN	10	15	150			0			0			0	150	270	500	230	46,00%	6C	1		
7	Boiler	6	0ML	IN	8	15	120			0			0			0	120								
8	Turbine	6	16ML	IN	20	15	300			0			0			0	300	300	500	200	40,00%	6D	1		
9	Turbine	6	9ML	IN	15	15	225			0			0			0	225	225	300	75	25,00%	6E		1	
10	Turbine BACK	6	0ML	IN	17	15	255			0			0			0	255	255	500	245	49,00%	6F	1		
11	Turbine FRONT	6	0ML	IN	11	15	165			0			0			0	165	285	500	215	43,00%	6G	1		
12	Diesel +	6	0ML	IN	8	15	120			0			0			0	120								
13	Ash Precips	6	0ML	IN	12	15	180			0			0			0	180	180	300	120	40,00%	6H		1	
14	Aux Bay	6	33ML	IN	4	15	60			0			0			0	60	367	500	133	26,60%	6I	1		
15	Aux Bay	6	28ML	IN	4	15	60			0			0			0	60								
16	Aux Bay STAIRWAY	6	20ML	IN	2	10	20			0			0			0	20								
17	Aux bay	6	20ML	IN		10	0	24	3	72			0			0	72								
17	Aux Bay STAIRWAY	6	16ML	IN	4	10	40			0			0			0	40								
18	Aux bay	6	16ML	IN		10	0	14	3	42	1	6	6			0	48								
18	Aux Bay S/WAY + EQUIP. ROOM	6	12ML	IN	4	10	40			0			0			0	40								
19	Aux bay	6	12ML	IN		10	0	9	3	27			0			0	27	203	300	97	32,33%	6J		1	
19	Aux Bay	6	6ML	IN	5	10	50	1	3	3			0			0	53								
20	Aux Bay	6	0ML	IN	5	10	50			0			0			0	50								
21	Cable Tunnel	6	-5ML	IN	10	10	100			0			0			0	100								
22	CW NORTH + S/S NORTH		0ML		18	15	270			0			0			0	270	270	500	230	46,00%	6K	1		

TOTALS	→	204		2910	48		144	1		6	0		0	3060	3060	4900	1840	SUB-TOTAL	8	3	0
																		STANDBY AMPS.	1	1	
																		TOTAL AMPS.	9	4	0

6	CW SOUTH S/STATION	OUT			5	15	75			0			0			0	75	150	300	150	50,00%	9C		1	
7	WTP S/STATION	OUT			5	15	75			0			0			0	75								

TOTALS	→	49		735	30		105	0		0	0		0	840	840	1300	460	SUB-TOTAL	2	1	0
																	STANDBY AMPS.		1		
																	TOTAL AMPS.		3	1	0

ZONE 10

1	PLATER W/SHOP + OUTSIDE	OUT			16	15	240			0			0			0	240	264	500	236	47,20%	10A	1		
2	PLATER W/SHOP OFFICES	IN				15	0			0	4	6	24			0	24								
3	TRANSPORT & TRAINING	OUT			12	15	180			0			0			0	180	225	300	75	25,00%	10B		1	
4	TRANSPORT & TRAINING OFFICES	IN				15	0	11	3	33			0	2	6	12	45								

TOTALS	→	28		420	11		33	4		24	2		12	489	489	800	311	SUB-TOTAL	1	1	0
																	STANDBY AMPS.		1		
																	TOTAL AMPS.		2	1	0

ZONE 11

1	STORES		GROUND	OUT	15	15	225			0			0			0	225	357	500	143	28,60%	11A	1		
2	STORES		GROUND	IN		15	0	6	3	18	8	6	48			0	66								
3	STORES		FIRST	IN		15	0	6	3	18	4	6	24			0	42								
4	STORES		SECOND	IN		15	0	8	3	24			0			0	24								
5	HMD		GROUND	OUT	19	15	285			0			0			0	285	395	500	105	21,00%	11B	1		
6	HMD OFFICES		FIRST	IN		15	0	6	3	18	2	6	12			0	30								
7	HMD OFFICES		SECOND	IN		15	0	20	3	60			0			0	60								
8	OIL BURNER WORKSHOP		GROUND	IN	2	10	20			0			0			0	20								
9	NEW BUILDING (GARRY)			OUT	10	15	150			0			0			0	150	255	500	245	49,00%	11C	1		
10	PROJECTS PARKHOME			OUT	2	15	30			0			0			0	30								
11	GARRY OFFICES			IN		15	0			0	2	3	6	3	9	27	33								
12	PROJECTS PARKHOME			IN		15	0	8	3	24			0	2	9	18	42								
13	DB THERMAL				4	15	60			0			0			0	60	240	300	60	20,00%	11D		1	
14	STEINMULLER				7	15	105			0			0			0	105								
15	COAL STOCKYARD			OUT	5	15	75			0			0			0	75								
16	COAL STAITHS 1			OUT	24	10	240			0			0			0	240	400	500	100	20,00%	11E	1		
17	COAL STAITHS 1	?		OUT	16	10	160			0			0			0	160								

TOTALS	→	104		1350	54		162	16		90	5		45	1647	1647	2300	653	SUB-TOTAL	4	1	0
																	STANDBY AMPS.		1		
																	TOTAL AMPS.		5	1	0

ZONE 12

1	ETRECC	IN				15	0	22	4	88			0			0	88								
2	ETRECC	OUT			4	15	60			0			0			0	60								
3	C&I O/SIDE PLANT OFFICES	IN				15	0	4	4,5	18			0	2	6	12	30								

4	OPS O/SIDE PLANT OFFICE	OUT			2	15	30			0			0			0	30	361	500	139	27,80%	12A	1		
5	OPS O/SIDE PLANT OFFICE	IN				15	0	2	4,5	9	2	6	12			0	21								
6	SAFETY & RISK	IN				15	0			0	2	6	12	3	6	18	30								
7	IR DEPARTMENT	IN				15	0			0			0	2	6	12	12								
8	C&I O/SIDE PLANT	OUT			4	15	60			0			0			0	60								
9	IR DEPARTMENT	OUT			2	15	30			0			0			0	30								
			TOTALS	→	12		180	28		115	4		24	7		42	361	361	500	139	SUB-TOTAL	1	0	0	
																				STANDBY AMPS.		1			
																				TOTAL AMPS.		2	0	0	

ZONE 13																									
1	SIMULATOR	IN				15	0	12	4,5	54			0			0	54	114	150	36	24,00%	13A			1
2	SIMULATOR	OUT			4	15	60			0			0			0	60								
			TOTALS	→	4		60	12		54	0		0	0		0	114	114	150	36	SUB-TOTAL	0	0	1	
																				STANDBY AMPS.				1	
																				TOTAL AMPS.		0	0	2	

ZONE 14																										
1	CED PARK HOME	IN				15	0			0	17	6	102			0	102	345	500	155	31,00%	14A	1			
2	CED PARK HOME	OUT			8	15	120			0			0			0	120									
3	RECOVERY BUILDING	IN				15	0	1	4,5	4,5	1	6	6	1	9	9	19,5									
4	RECOVERY BUILDING	OUT			2	15	30			0			0			0	30									
5	BLUE BUILDING	IN				15	0	3	4,5	13,5			0			0	13,5									
6	BLUE BUILDING	OUT			4	15	60			0			0			0	60	90	150	60	40,00%	14B		1		
7	ROSHCON	IN			2	15	30			0			0			0	30									
8	SIEMENS	IN			2	15	30			0			0			0	30									
9	NEW CONTRACTOR	IN			2	15	30			0			0			0	30									
			TOTALS	→	20		300	4		18	18		108	1		9	435	435	650	215	SUB-TOTAL	1	1	0		
																				STANDBY AMPS.		1				
																				TOTAL AMPS.		2	1	0		

ZONE SUMMARY	SPEAKERS				CAPACITIES			PRIMARY AMPS.			STANDBY AMPS.			TOTAL
	HORN	CEILING	BOX W/O	BI-DI	CCT LOAD	AMPLIFIER	SPARE	500W	300W	150W	500W	300W	150W	
ZONE 1	189	24	6	4	2809	4400	1591	7	3	0	1	1	0	8
ZONE 2	184	54	2	0	2789	4400	1611	7	3	0	1	1	0	8
ZONE 3	183	32	5	4	2815	4400	1585	7	3	0	1	1	0	8
ZONE 4	185	49	1	1	2787	4400	1613	7	3	0	1	1	0	8
ZONE 5	184	26	2	4	2732	4400	1668	7	3	0	1	1	0	8
ZONE 6	204	48	1	0	3060	4900	1840	8	3	0	1	1	0	9
ZONE 7	35	148	20	10	1198	1800	602	3	1	0	1	0	0	4

ZONE 8	17	3	11	4
ZONE 9	49	30	0	0
ZONE 10	28	11	4	2
ZONE 11	104	54	16	5
ZONE 12	12	28	4	7
ZONE 13	4	12	0	0
ZONE 14	20	4	18	1

SPEAKER TOTALS	1398	523	90	42
	2053			

349,5	500	150,5	1	0	0
840	1300	460	2	1	0
489	800	311	1	1	0
1647	2300	653	4	1	0
361	500	139	1	0	0
114	150	36	0	0	1
435	650	215	1	1	0

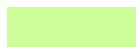
22425,5	34900	12474,5	56	23	1
			80		

1	0	0
1	0	0
1	0	0
1	0	0
1	0	0
0	0	1
1	0	0

13	6	1
20		

2
3
2
5
2
0
2

69
7



. AMPS.
150W

[illegible]

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2
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2
71