

ABB DCS CIS CARD CHANNEL											
BOILER						TURBINE					
Node	CIS CARD	AI	AO	DI	DO	Node	CIS CARD	AI	AO	DI	DO
BLR - 1	CIS - 1	6	3	3	4	TG - 1	CIS - 1	6	3	3	4
	CIS - 2	6	3	3	4		CIS - 2	6	3	3	4
	CIS - 3	6	2	3	4		CIS - 3	6	3	3	4
	CIS - 4	6	2	3	4		CIS - 4	6	3	3	4
	CIS - 5	6	2	3	4		CIS - 5	6	3	3	4
	CIS - 6	6	2	3	4		CIS - 6	6	3	3	4
	CIS - 7	6	2	3	4		CIS - 7	6	3	3	4
	CIS - 8	6	2	3	4		CIS - 8	6	3	3	4
	CIS - 9	6	2	3	4		CIS - 9	6	3	3	4
	CIS - 10	6	2	3	4		CIS - 10	6	3	3	4
	CIS - 11	6	2	3	4		CIS - 11	6	3	3	4
	CIS - 12	6	2	3	4		CIS - 12	6	3	3	4
	CIS - 13	6	2	3	4		CIS - 13	6	3	3	4
	CIS - 14	6	2	3	4		CIS - 14	6	3	3	4
	CIS - 15	6	2	3	4	Total		84	42	42	56
	CIS - 16	6	2	3	4	TG - 2	CIS - 1	6	3	3	4
	CIS - 17	6	2	3	4		CIS - 2	6	3	3	4
Total		102	36	51	68	Total		12	6	6	8
BLR - 2	CIS - 1	6	2	3	4	TG - 3	CIS - 1	6	3	3	4
	CIS - 2	6	2	3	4		CIS - 2	6	3	3	4
	CIS - 3	6	2	3	4		CIS - 3	6	3	3	4
	CIS - 4	6	2	3	4		CIS - 4	6	3	3	4
	CIS - 5	6	2	3	4	Total		24	12	12	16
	CIS - 6	6	2	3	4	Total		120	60	60	80
	CIS - 7	6	2	3	4						
	CIS - 8	6	2	3	4						
	CIS - 9	6	2	3	4						
	CIS - 10	6	2	3	4						
	CIS - 11	6	2	3	4						
	CIS - 12	6	2	3	4						
	CIS - 13	6	2	3	4						
	CIS - 14	6	2	3	4						
	CIS - 15	6	2	3	4						
Total		90	30	45	60						
BLR - 3	CIS - 1	6	3	3	4						
	CIS - 2	6	3	3	4						
	CIS - 3	6	2	3	4						
	CIS - 4	6	2	3	4						
	CIS - 5	6	2	3	4						
	CIS - 6	6	2	3	4						
	CIS - 7	6	2	3	4						
	CIS - 8	6	2	3	4						
	CIS - 9	6	2	3	4						
	CIS - 10	6	2	3	4						
	CIS - 11	6	2	3	4						
	CIS - 12	6	2	3	4						
Total		72	26	36	48						
BLR - 4	CIS - 1	6	3	3	4						
	CIS - 2	6	3	3	4						
	CIS - 3	6	2	3	4						
	CIS - 4	6	2	3	4						
	CIS - 5	6	2	3	4						
	CIS - 6	6	2	3	4						
	CIS - 7	6	2	3	4						
	CIS - 8	6	2	3	4						
	CIS - 9	6	2	3	4						
	CIS - 10	6	2	3	4						
Total		60	22	30	40						
Total		324	114	162	216	816					

ANSLADO DCS CIS CARD CHANNEL						ALSTOM DCS CIS CARD CHANNEL						
		AI	AO	DI	DO			AI	AO	DI	DO	
Node -1	CIS -1	5	3	4	4	Node -1	CAC10 -1	4	4	4	4	
	CIS -2	5	3	4	4							
	CIS -3	5	3	4	4							
<b>Total</b>		<b>15</b>	<b>9</b>	<b>12</b>	<b>12</b>							
Node -2	CIS -1	5	3	4	4	Node -2	CAC10 -1	4	4	4	4	
	CIS -2	5	3	4	4							
	CIS -3	5	3	4	4	Node -2	CAC10 -1	4	4	4	4	
	CIS -4	5	3	4	4		CAC10 -2	4	4	4	4	
<b>Total</b>		<b>20</b>	<b>12</b>	<b>16</b>	<b>16</b>	CAC10 -3	4	4	4	4		
							CAC10 -3	4	4	4	4	
							CAC10 -3	4	4	4	4	
						<b>Total</b>		<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	
											<b>112</b>	
<b>Total</b>	<b>AI</b>	<b>35</b>	<b>21</b>	<b>28</b>	<b>28</b>	<b>112</b>						

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ABB DCS CIS CARD CHANNEL												
BOILER						TURBINE						
Node	CIS CARD	AI	AO	DI	DO	Node	CIS CARD	AI	AO	DI	DO	
BLR - 1	CIS - 1	4	3	3	4	TG - 1	CIS - 1	6	3	3	4	
	CIS - 2	4	3	3	4		CIS - 2	6	3	3	4	
	CIS - 3	4	2	3	4		CIS - 3	6	3	3	4	
	CIS - 4	4	2	3	4		CIS - 4	6	3	3	4	
	CIS - 5	4	2	3	4		CIS - 5	6	3	3	4	
	CIS - 6	4	2	3	4		CIS - 6	6	3	3	4	
	CIS - 7	4	2	3	4		CIS - 7	6	3	3	4	
	CIS - 8	4	2	3	4		CIS - 8	6	3	3	4	
	CIS - 9	4	2	3	4		CIS - 9	6	3	3	4	
	CIS - 10	4	2	3	4		CIS - 10	6	3	3	4	
	CIS - 11	4	2	3	4		CIS - 11	6	3	3	4	
	CIS - 12	4	2	3	4		CIS - 12	6	3	3	4	
	CIS - 13	4	2	3	4		CIS - 13	6	3	3	4	
	CIS - 14	4	2	3	4		CIS - 14	6	3	3	4	
	CIS - 15	4	2	3	4		Total		84	42	42	56
	CIS - 16	4	2	3	4		TG - 2	CIS - 1	6	3	3	4
	CIS - 17	4	2	3	4			CIS - 2	6	3	3	4
Total		68	36	51	68	Total		12	6	6	8	
BLR - 2	CIS - 1	4	2	3	4	TG - 3	CIS - 1	6	3	3	4	
	CIS - 2	4	2	3	4		CIS - 2	6	3	3	4	
	CIS - 3	4	2	3	4		CIS - 3	6	3	3	4	
	CIS - 4	4	2	3	4		CIS - 4	6	3	3	4	
	CIS - 5	4	2	3	4	Total		24	12	12	16	
	CIS - 6	4	2	3	4	120 60 60 80 320						
	CIS - 7	4	2	3	4							
	CIS - 8	4	2	3	4							
	CIS - 9	4	2	3	4							
	CIS - 10	4	2	3	4							
	CIS - 11	4	2	3	4							
	CIS - 12	4	2	3	4							
	CIS - 13	4	2	3	4							
	CIS - 14	4	2	3	4							
	CIS - 15	4	2	3	4							
	Total		60	30	45	60						
BLR - 3	CIS - 1	4	2	3	4							
	CIS - 2	4	2	3	4							
	CIS - 3	4	2	3	4							
	CIS - 4	4	2	3	4							
	CIS - 5	4	2	3	4							
	CIS - 6	4	2	3	4							
	CIS - 7	4	2	3	4							
	CIS - 8	4	2	3	4							
	CIS - 9	4	2	3	4							
	CIS - 10	4	2	3	4							
	CIS - 11	4	2	3	4							
	CIS - 12	4	2	3	4							
Total		48	24	36	48							
BLR - 4	CIS - 1	4	2	3	4							
	CIS - 2	4	2	3	4							
	CIS - 3	4	2	3	4							
	CIS - 4	4	2	3	4							
	CIS - 5	4	2	3	4							
	CIS - 6	4	2	3	4							
	CIS - 7	4	2	3	4							
	CIS - 8	4	2	3	4							
	CIS - 9	4	2	3	4							
	CIS - 10	4	2	3	4							
Total		40	20	30	40							

ANSLADO DCS CIS CARD CHANNEL					ALSTOM DCS CIS CARD CHANNEL						
	AI	AO	DI	DO		AI	AO	DI	DO		
Node -1	CIS -1	5	3	4	4	Node -1	CAC10 -1	4	4	4	4
	CIS -2	5	3	4	4						
	CIS -3	5	3	4	4						
<b>Total</b>	<b>15</b>	<b>9</b>	<b>12</b>	<b>12</b>							
Node -2	CIS -1	5	3	4	4	Node -2	CAC10 -1	4	4	4	4
	CIS -2	5	3	4	4						
	CIS -3	5	3	4	4	Node -2	CAC10 -1	4	4	4	4
	CIS -4	5	3	4	4		CAC10 -2	4	4	4	4
<b>Total</b>	<b>20</b>	<b>12</b>	<b>16</b>	<b>16</b>		CAC10 -3	4	4	4	4	
						CAC10 -3	4	4	4	4	
						CAC10 -3	4	4	4	4	
					<b>Total</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>28</b>	<b>112</b>	
<b>Total</b>	<b>AI</b>	<b>AO</b>	<b>DI</b>	<b>DO</b>	<b>112</b>						
	<b>35</b>	<b>21</b>	<b>28</b>	<b>28</b>							