

Equipment Summary Sheet

HRSG

HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER CONTROL PANEL No. 1	Tag : 103L301
Maker:	ENVIRONMENTAL SERVICES	
Model/ Type:	Custom	
Description:	Burner management System (BMS), PLC-based (Allen Bradley SLC-500), IP55 case, incorporates flame controller (Honeywell EC7850)	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:		

REFERENCES

Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure:
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER CONTROL PANEL No. 2	Tag : 203L301
Maker:	ENVIRONMENTAL SERVICES	
Model/ Type:	Custom	
Description:	Burner management System (BMS), PLC-based (Allen Bradley SLC-500), IP55 case, incorporates flame controller (Honeywell EC7850)	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:		

REFERENCES

Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure:
Vendor Manual:		
Other:		

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER CONTROL PANEL No. 3	Tag : 303L301
Maker:	ENVIRONMENTAL SERVICES	
Model/ Type:	Custom	
Description:	Burner management System (BMS), PLC-based (Allen Bradley SLC-500), IP55 case, incorporates flame controller (Honeywell EC7850)	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:		

REFERENCES

Fig. 4 Grid Location:	P-15	Pand ID: P39
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure:
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER GAS MODULE FOR GTG-1	Tag : 103M300
Maker:	ENVIRONMENTAL	
Model/ Type:		
Description:	Fuel gas pressure regulators and instrument air connections.	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:	# Incoming gas supply pressure 350 kpa # Regulated gas supply pressure 210 kPa. # Regulated pilot gas supply pressure 80 kPa	

REFERENCES

Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER GAS MODULE FOR GTG-2	Tag : 203M300
Maker:	ENVIRONMENTAL	
Model/ Type:		
Description:	Fuel gas pressure regulators and instrument air connections.	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:	# Incoming gas supply pressure 350 kpa # Regulated gas supply pressure 210 kPa. # Regulated pilot gas supply pressure 80 kPa	
REFERENCES		
Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER GAS MODULE FOR GTG-3	Tag : 303M300
Maker:	ENVIRONMENTAL	
Model/ Type:		
Description:	Fuel gas pressure regulators and instrument air connections.	
Size:		
Capacity:		
Elect. Rating:		
Principal Operating Parameters:	# Incoming gas supply pressure 350 kpa # Regulated gas supply pressure 210 kPa. # Regulated pilot gas supply pressure 80 kPa	
REFERENCES		
Fig. 4 Grid Location:	P-15	Pand ID: P39
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER No. 1 FOR GTG-1	Tag : 103M321															
Maker:	ENVIRONMENTAL-ZINK																
Model/ Type:	ZK 1362/LDR-W																
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.																
Size:																	
Capacity:																	
Elect. Rating:																	
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 5%;">#</td> <td style="width: 50%;">Gas supply pressure</td> <td style="width: 45%;">350 kpa nominal (in range140 to 420 kPa).</td> </tr> <tr> <td>#</td> <td>Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> </tr> <tr> <td>#</td> <td>Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> </tr> <tr> <td>#</td> <td>Heat release</td> <td>2 to 40 M BTU/hour.</td> </tr> <tr> <td>#</td> <td>Gas consumption, max</td> <td>1150 cubic metres/hour.</td> </tr> </table>		#	Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).	#	Regulated gas supply pressure	210 to 300 kPa.	#	Gas pressure at main burner	1.4 kPa to 140 kPa.	#	Heat release	2 to 40 M BTU/hour.	#	Gas consumption, max	1150 cubic metres/hour.
#	Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).															
#	Regulated gas supply pressure	210 to 300 kPa.															
#	Gas pressure at main burner	1.4 kPa to 140 kPa.															
#	Heat release	2 to 40 M BTU/hour.															
#	Gas consumption, max	1150 cubic metres/hour.															

Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER No. 1 FOR GTG-2	Tag : 203M321															
Maker:	ENVIRONMENTAL-ZINK																
Model/ Type:	ZK 1362/LDR-W																
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.																
Size:																	
Capacity:																	
Elect. Rating:																	
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 5%;">#</td> <td style="width: 50%;">Gas supply pressure</td> <td style="width: 45%;">350 kpa nominal (in range140 to 420 kPa).</td> </tr> <tr> <td>#</td> <td>Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> </tr> <tr> <td>#</td> <td>Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> </tr> <tr> <td>#</td> <td>Heat release</td> <td>2 to 40 M BTU/hour.</td> </tr> <tr> <td>#</td> <td>Gas consumption, max</td> <td>1150 cubic metres/hour.</td> </tr> </table>		#	Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).	#	Regulated gas supply pressure	210 to 300 kPa.	#	Gas pressure at main burner	1.4 kPa to 140 kPa.	#	Heat release	2 to 40 M BTU/hour.	#	Gas consumption, max	1150 cubic metres/hour.
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#	Gas consumption, max	1150 cubic metres/hour.															

Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER No. 1 FOR GTG-3	Tag : 303M321															
Maker:	ENVIRONMENTAL-ZINK																
Model/ Type:	ZK 1362/LDR-W																
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.																
Size:																	
Capacity:																	
Elect. Rating:																	
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"># Gas supply pressure</td> <td style="width: 40%;">350 kpa nominal (in range140 to 420 kPa).</td> <td style="width: 30%;"></td> </tr> <tr> <td># Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> <td></td> </tr> <tr> <td># Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> <td></td> </tr> <tr> <td># Heat release</td> <td>2 to 40 M BTU/hour.</td> <td></td> </tr> <tr> <td># Gas consumption, max</td> <td>1150 cubic metres/hour.</td> <td></td> </tr> </table>		# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).		# Regulated gas supply pressure	210 to 300 kPa.		# Gas pressure at main burner	1.4 kPa to 140 kPa.		# Heat release	2 to 40 M BTU/hour.		# Gas consumption, max	1150 cubic metres/hour.	
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Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	P-15	Pand ID: P39
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER No. 2 FOR GTG-1	Tag : 103M322															
Maker:	ENVIRONMENTAL-ZINK																
Model/ Type:	ZK 1362/LDR-W																
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.																
Size:																	
Capacity:																	
Elect. Rating:																	
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"># Gas supply pressure</td> <td style="width: 40%;">350 kpa nominal (in range140 to 420 kPa).</td> <td style="width: 30%;"></td> </tr> <tr> <td># Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> <td></td> </tr> <tr> <td># Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> <td></td> </tr> <tr> <td># Heat release</td> <td>2 to 40 M BTU/hour.</td> <td></td> </tr> <tr> <td># Gas consumption, max</td> <td>1150 cubic metres/hour.</td> <td></td> </tr> </table>		# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).		# Regulated gas supply pressure	210 to 300 kPa.		# Gas pressure at main burner	1.4 kPa to 140 kPa.		# Heat release	2 to 40 M BTU/hour.		# Gas consumption, max	1150 cubic metres/hour.	
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Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER No. 2 FOR GTG-2	Tag : 203M322										
Maker:	ENVIRONMENTAL-ZINK											
Model/ Type:	ZK 1362/LDR-W											
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.											
Size:												
Capacity:												
Elect. Rating:												
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"># Gas supply pressure</td> <td style="width: 40%;">350 kpa nominal (in range140 to 420 kPa).</td> </tr> <tr> <td># Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> </tr> <tr> <td># Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> </tr> <tr> <td># Heat release</td> <td>2 to 40 M BTU/hour.</td> </tr> <tr> <td># Gas consumption, max</td> <td>1150 cubic metres/hour.</td> </tr> </table>		# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).	# Regulated gas supply pressure	210 to 300 kPa.	# Gas pressure at main burner	1.4 kPa to 140 kPa.	# Heat release	2 to 40 M BTU/hour.	# Gas consumption, max	1150 cubic metres/hour.
# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).											
# Regulated gas supply pressure	210 to 300 kPa.											
# Gas pressure at main burner	1.4 kPa to 140 kPa.											
# Heat release	2 to 40 M BTU/hour.											
# Gas consumption, max	1150 cubic metres/hour.											

Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER No. 2 FOR GTG-3	Tag : 303M322										
Maker:	ENVIRONMENTAL-ZINK											
Model/ Type:	ZK 1362/LDR-W											
Description:	Low emission natural gas duct burner, c/w main and pilot burners, ignitors, flamme scanners ans sightports, gas train and valves.											
Size:												
Capacity:												
Elect. Rating:												
Principal Operating Parameters:	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"># Gas supply pressure</td> <td style="width: 40%;">350 kpa nominal (in range140 to 420 kPa).</td> </tr> <tr> <td># Regulated gas supply pressure</td> <td>210 to 300 kPa.</td> </tr> <tr> <td># Gas pressure at main burner</td> <td>1.4 kPa to 140 kPa.</td> </tr> <tr> <td># Heat release</td> <td>2 to 40 M BTU/hour.</td> </tr> <tr> <td># Gas consumption, max</td> <td>1150 cubic metres/hour.</td> </tr> </table>		# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).	# Regulated gas supply pressure	210 to 300 kPa.	# Gas pressure at main burner	1.4 kPa to 140 kPa.	# Heat release	2 to 40 M BTU/hour.	# Gas consumption, max	1150 cubic metres/hour.
# Gas supply pressure	350 kpa nominal (in range140 to 420 kPa).											
# Regulated gas supply pressure	210 to 300 kPa.											
# Gas pressure at main burner	1.4 kPa to 140 kPa.											
# Heat release	2 to 40 M BTU/hour.											
# Gas consumption, max	1150 cubic metres/hour.											

Note : See also main gas supply train in Duct Burner Gas Module (103M300).

REFERENCES

Fig. 4 Grid Location:	P-15	Pand ID: P38
Equipment Manual:	5-1-E-2	System Manual Figure: 7
Vendor Manual:		
Other:		

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER SCANNER BLOWER No. 1 FOR GTG-1	Tag : 103D101
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER SCANNER BLOWER No. 1 FOR GTG-2	Tag : 203D101
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER SCANNER BLOWER No. 1 FOR GTG-3	Tag : 303D101
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	P-15	Pand ID: P39
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER SCANNER BLOWER No. 2 FOR GTG-1	Tag : 103D102
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	J-15	Pand ID: P37
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	DUCT BURNER SCANNER BLOWER No. 2 FOR GTG-2	Tag : 203D102
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	M-15	Pand ID: P38
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment :	DUCT BURNER SCANNER BLOWER No. 2 FOR GTG-3	Tag : 303D102
Maker:	ENVIRONMENTAL / HOWDEN WHEELER	
Model/ Type:	PHA 685-50S	
Description:	Direct drive centrifugal fan with TEFC 3-phase motor, CW90 or ACW 90.	
Size:		
Capacity:	94 litres/second at 90 kPa	
Elect. Rating:	5.5 kW	
Principal Operating Parameters:		
REFERENCES		
Fig. 4 Grid Location:	P-15	Pand ID: P39
Equipment Manual:	5-1-E-2 (Section XI)	System Manual Figure: 7
Vendor Manual:		
Other:		

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	HEAT RECOVERY STEAM GENERATOR No. 1	Tag : 103M100																																							
Maker:	NOOTER-ERIKSEN																																								
Model/ Type:	954620																																								
Description:	Four-module, 3-drum, single-stack, heat recovery steam generator with dual duct burners, HP superheaters (2), HP economisers (3), IP superheater (1), IP economiser (1), LP superheater (1) and combined IP/LP economiser (1).																																								
Size:																																									
Capacity:																																									
Elect. Rating:																																									
Principal Operating Parameters:	<table> <tr><td>#</td><td>HP steam pressure</td><td>9825 kPa</td></tr> <tr><td>#</td><td>HP steam temperature</td><td>502 deg. C</td></tr> <tr><td>#</td><td>HP steam flow</td><td>63, 162 kg/hour.</td></tr> <tr><td>#</td><td>IP steam pressure</td><td>1209 kPa</td></tr> <tr><td>#</td><td>IP steam temperature</td><td>206 deg. C</td></tr> <tr><td>#</td><td>IP steam flow</td><td>14,080 kg/hour</td></tr> <tr><td>#</td><td>LP steam pressure</td><td>312 kPa</td></tr> <tr><td>#</td><td>LP steam temperature</td><td>194 deg. C</td></tr> <tr><td>#</td><td>LP steam flow</td><td>4000 kg/hour</td></tr> <tr><td>#</td><td>Feedwater temperature</td><td>49 deg. C.</td></tr> <tr><td>#</td><td>Blowdown rate</td><td>1%</td></tr> <tr><td>#</td><td>Exhaust gas inlet temperature</td><td>568 deg. C</td></tr> <tr><td>#</td><td>Exhaust gas inlet flow</td><td>505,300 kg/hour</td></tr> </table>		#	HP steam pressure	9825 kPa	#	HP steam temperature	502 deg. C	#	HP steam flow	63, 162 kg/hour.	#	IP steam pressure	1209 kPa	#	IP steam temperature	206 deg. C	#	IP steam flow	14,080 kg/hour	#	LP steam pressure	312 kPa	#	LP steam temperature	194 deg. C	#	LP steam flow	4000 kg/hour	#	Feedwater temperature	49 deg. C.	#	Blowdown rate	1%	#	Exhaust gas inlet temperature	568 deg. C	#	Exhaust gas inlet flow	505,300 kg/hour
#	HP steam pressure	9825 kPa																																							
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REFERENCES																																									
Fig. 4 Grid Location:	J-13	Pand ID: P6, P7, P8, P9, P37																																							
Equipment Manual:	5-1-E-1	System Manual Figure: 7																																							
Vendor Manual:																																									
Other:																																									

Equipment Summary Sheet

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HEAT RECOVERY STEAM GENERATORS

Equipment :	HEAT RECOVERY STEAM GENERATOR No. 2		Tag : 203M100
Maker:	NOOTER-ERIKSEN		
Model/ Type:	954620		
Description:	Four-module, 3-drum, single-stack, heat recovery steam generator with dual duct burners, HP superheaters (2), HP economisers (3), IP superheater (1), IP economiser (1), LP superheater (1) and combined IP/LP economiser (1).		
Size:			
Capacity:			
Elect. Rating:			
Principal Operating Parameters:	# HP steam pressure	9825 kPa	
	# HP steam temperature	502 deg. C	
	# HP steam flow	63, 162 kg/hour.	
	# IP steam pressure	1209 kPa	
	# IP steam temperature	206 deg. C	
	# IP steam flow	14,080 kg/hour	
	# LP steam pressure	312 kPa	
	# LP steam temperature	194 deg. C	
	# LP steam flow	4000 kg/hour	
	# Feedwater temperature	49 deg. C.	
	# Blowdown rate	1%	
	# Exhaust gas inlet temperature	568 deg. C	
	# Exhaust gas inlet flow	505,300 kg/hour	
REFERENCES			
Fig. 4 Grid Location:	M-13	Pand ID:	P10, P11, P12, P13, P38
Equipment Manual:	5-1-E-1	System Manual Figure:	7
Vendor Manual:			
Other:			

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HEAT RECOVERY STEAM GENERATORS

Equipment :	HEAT RECOVERY STEAM GENERATOR No. 3		Tag : 303M100
Maker:	NOOTER-ERIKSEN		
Model/ Type:	954620		
Description:	Four-module, 3-drum, single-stack, heat recovery steam generator with dual duct burners, HP superheaters (2), HP economisers (3), IP superheater (1), IP economiser (1), LP superheater (1) and combined IP/LP economiser (1).		
Size:			
Capacity:			
Elect. Rating:			
Principal Operating Parameters:	# HP steam pressure	9825 kPa	
	# HP steam temperature	502 deg. C	
	# HP steam flow	63, 162 kg/hour.	
	# IP steam pressure	1209 kPa	
	# IP steam temperature	206 deg. C	
	# IP steam flow	14,080 kg/hour	
	# LP steam pressure	312 kPa	
	# LP steam temperature	194 deg. C	
	# LP steam flow	4000 kg/hour	
	# Feedwater temperature	49 deg. C.	
	# Blowdown rate	1%	
	# Exhaust gas inlet temperature	568 deg. C	
	# Exhaust gas inlet flow	505,300 kg/hour	
REFERENCES			
Fig. 4 Grid Location:	O-13	Pand ID:	P14, P15, P16, P17, P39
Equipment Manual:	5-1-E-1	System Manual Figure:	7
Vendor Manual:			
Other:			