


GAS TURBINE DATA SHEET PGT5/2

CUSTOMER :	Varese Risorse S.p.A.
PLANT LOCATION :	Italy
PLANT:	Centrale di teleriscaldamento di Varese
SERIAL N°:	G09097

	TITLE: GAS TURBINE PGT5/2 DATA SHEET	DOCUMENT CODE SOM6774796	REVISION 0			
REVISION DESCRIPTION: ISSUED		REVISION DATE 22-Mar-16	SECURITY CODE N			
		APPROVED Electronically Stored CHECKED Electronically Stored EXECUTED P:E:S				
	SCALE N/A	REPLACES/DERIVED FROM N/A	1 st EXECUTION 22-Mar-16	ORIGINAL JOB 1731334	SIZE 4	LANGUAGE A
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1	APPLICABLE TO: <input type="radio"/> PROPOSAL <input checked="" type="radio"/> PURCHASE <input type="radio"/> AS BUILT				
2	FOR VARESE RISORSE S.P.A. _____ UNIT _____				
3	SITE CENTRALE DI TELERISCALDAMENTO DI VARESE _____		SERIAL NO. G09097 _____		
4	SERVICE LP COMPRESSION _____		NO. REQUIRED 1 _____		
5	<input type="radio"/> CONTINUOUS <input checked="" type="radio"/> INTERMITTENT <input type="radio"/> STAND BY <input type="radio"/> DRIVEN EQUIPMENT <input type="radio"/> RECIPROCATING COMPRESSOR				
6	MANUFACTURER NUOVO PIGNONE _____ <input checked="" type="radio"/> MODEL PGT5/2 ISO RATING 7241.5 (HP) @ 10290 RPM				
7	NOTE: INFORMATION TO BE COMPLETED: <input checked="" type="radio"/> BY PURCHASER <input type="radio"/> BY MANUFACTURER <input checked="" type="checkbox"/> BY MFR IF NOT BY PURCHASER				
8	GENERAL				
9					
10	CYCLE: <input type="radio"/> REGEN <input checked="" type="radio"/> SIMPLE <input type="radio"/> EXHAUST HEAT RECOVERY TYPE: <input checked="" type="checkbox"/> SINGLE SHAFT <input checked="" type="radio"/> MULTI SHAFT (TWO)				
11	DRIVEN EQUIPMENT: RECIPROCAING COMPRESSOR				
12	OUTPUT SHAFT SPEED RANGE (2.1.5) <input checked="" type="checkbox"/> MIN 7203 <input checked="" type="checkbox"/> MAX 10804 RPM				
13	<input checked="" type="radio"/> ENCLOSURE REQUIRED				
14	OPERATION <input type="radio"/> ATTENDED <input checked="" type="radio"/> UNATTENDED				
15	EXPECTED PERFORMANCE (note A)		LOCATION (2.1.18)		
16	GAS TURBINE INCLUDING INLET & EXHAUST LOSSES				
17		SITE RATED (1.4.34)	NORMAL DUTY (1.4.16)	SITE Min. TEMP	SITE Max. TEMP
18					
19	<input checked="" type="radio"/> DRY BULB TEMP. °C	59	91,4	130	23
20	<input checked="" type="radio"/> RELATIVE HUMIDITY %	60	90	90	90
21	<input checked="" type="radio"/> BAROMETER (PSI)	14.6	14.5	14.5	14.5
22	<input checked="" type="checkbox"/> OUTPUT, (HP)	7249	6077	4506	7776
23	<input checked="" type="checkbox"/> HEAT RATE,BTU HP-HR	9545	10048	11535	9519
24	<input checked="" type="checkbox"/> OUTPUT SHAFT SPEED, RPM	10290	10290	10290	10290
25	<input checked="" type="checkbox"/> AIR FLOW kg/SEC	56.56	50.59	44.36	59.36
26	<input checked="" type="checkbox"/> EXHAUST FLOW kg/SEC	59.64	50.90	44.60	59.81
27	<input type="checkbox"/> FIRING TEMP. °C				
28	<input type="checkbox"/> GAS GEN. EXHAUST TEMP. °C				
29	<input checked="" type="checkbox"/> PT EXHAUST TEMP. °C	990	1009	1009	979
30	<input type="checkbox"/> CERTIFIED POINT (1.4.16)				
31	<input type="radio"/> STEAM <input type="radio"/> WATER EFFECTS FOR <input type="radio"/> DLN				
32	<input type="radio"/> EMISSION CONTROL <input type="radio"/> AUGMENTATION (2.1.8)				
33	<input type="checkbox"/> STEAM FLOW, kg/HR <input checked="" type="checkbox"/>				
34	<input type="checkbox"/> WATER FLOW, m³/HR				
35					
36					
37					
38	APPLICABLE SPECIFICATIONS:		<input type="radio"/> APPLICABLE TO NEIGHBORHOOD: (3.6.4.2)		
39	API 616 GAS TURBINES FOR REFINERY SERV.		ACOUSTIC ENCLOSURE: <input checked="" type="radio"/> YES <input type="radio"/> NO		
40	<input checked="" type="radio"/> GOVERNING SPECIFICATION (IF DIFFERENT)		PAINTING: <input checked="" type="radio"/> MAUNFACTURE'S SPEC. <input type="radio"/> OTHER _____		
41	API616 & N.P.STANDARD EXCEPTIONS				
42	<input type="radio"/> VENDOR HAVING UNIT RESPONSIBILITY (2.7.1.7)		NOTE: COMMENTS:		
43					
44					
45	SHIPMENT: (4.4.1)				
46	<input type="radio"/> DOMESTIC <input type="radio"/> EXPORT <input checked="" type="radio"/> EXPORT BOXING REQD.				
47	<input type="radio"/> OUTDOOR STORAGE MORE THAN 12 MONTHS (4.4.1)				
48	<input type="radio"/> DOMESTIC <input type="radio"/> EXPORT SHIPMENT				
49					
50					

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SHEET 2 of 10				

1	FUEL SYSTEM (3.7)																																																																																										
2	TYPE: ● GAS ○ LIQUID ○ DUAL (GAS/GAS) ○ DUAL (GAS/LIQUID) ○ DUAL (LIQUID/LIQUID)																																																																																										
3	DUAL SYSTEM REQMTS (3.7.1.7) ○ (MANUAL) (AUTO) TRANSFER UNDER LOAD																																																																																										
4	○ SHUTDOWN TO TRANSFER ○ TRANSFER @ (RATED) (____% RATED) LOAD																																																																																										
5	○ COMPLETE FUEL RECEIVING SYSTEM (3.7.1.1) ○ MAX. TIME ALLOWED TO COMPLETE TRANSFER ____ SEC.																																																																																										
6																																																																																											
7	GAS FUELS (3.7.2) (note 2)		LIQUID FUELS (3.7.3)																																																																																								
8			FUEL GRADE (3.7.3.3)																																																																																								
9	● FUEL ANALYSIS - MOL % (3.7.2.1) (3.7.1.8)		ASTM D1655 ASTM ○ 0GT ○ 1GT																																																																																								
10	COMPOSITION: M.W. NORMAL STARTING ALT	LATER	JET ○ A ○ A-1 ○ B	ASTM ○ D2880 ○ 2GT ○ 3GT ○ 4GT																																																																																							
11	AIR		○ OTHER, INDICATE ANALYSIS BELOW																																																																																								
12	OXIGEN		LIQUID FUEL TREATMENT REQUIRED YES NO																																																																																								
13	NITROGEN		TREATMENT SYSTEM BY (3.7.1.5) ○ VENDOR ○ OTHER																																																																																								
14	WATER VAPOR		HEATER REQD YES NO																																																																																								
15	CARBON MONOXIDE		○ LIQ FUEL PRESS REQD, MAX/MIN, (kPaG) (BARG)																																																																																								
16	CARBON DIOXIDE		FUEL ANALYSIS DATA (3.7.3.3)																																																																																								
17	HYDROGEN		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">PROPERTY</th> <th style="text-align: left;">ASTM METHOD</th> <th style="text-align: left;">MEASURED VALUE</th> </tr> </thead> <tbody> <tr><td>VISCOSITY CPU, 37,7 °C</td><td>D-445</td><td>_____</td></tr> <tr><td>DISTILLATION DATA</td><td>D-86</td><td>_____</td></tr> <tr><td>50% RECOVERY °C MAX</td><td></td><td>_____</td></tr> <tr><td>END POINT °C MAX</td><td></td><td>_____</td></tr> <tr><td>SULFUR CONTENT % WT. MAX. (SELECT APPL. METHOD)</td><td></td><td></td></tr> <tr><td>BOMB METHOD</td><td>D-129</td><td>_____</td></tr> <tr><td>LAMP METHOD</td><td>D-1266</td><td>_____</td></tr> <tr><td>ON-TEMP METHOD</td><td>D-1552</td><td>_____</td></tr> <tr><td>CARBON RESIDUE (ON 10% BOTTOMS)</td><td>% WT. MAX.</td><td>_____</td></tr> <tr><td>CONRADSON</td><td>D-189</td><td>_____</td></tr> <tr><td>RAMSBOTTOM</td><td>D-524</td><td>_____</td></tr> <tr><td>COPPER STRIP CORROSION PLATE</td><td>D-130</td><td>_____</td></tr> <tr><td>3 HRS AT 100 °C MAX</td><td></td><td></td></tr> <tr><td>AROMATIC CONTENT</td><td>D-1319</td><td>_____</td></tr> <tr><td>ASH CONTENT</td><td>D-482</td><td>_____</td></tr> <tr><td>SPECIFIC GRAVITY 60</td><td>D-1298</td><td>_____</td></tr> <tr><td>FLASH POINT °C</td><td>D-56</td><td>_____</td></tr> <tr><td>POUR POINT °C</td><td>D-97</td><td>_____</td></tr> <tr><td>WATER</td><td>D-95</td><td>_____</td></tr> <tr><td>FILTERABLE DIRT. MG/100ML</td><td>D-2276</td><td>_____</td></tr> <tr><td>TRACE METALS (SATONIC ABSORPTION PREFERRED)</td><td>D-2788</td><td>_____</td></tr> <tr><td>SODIUM</td><td></td><td>_____</td></tr> <tr><td>POTASSIUM</td><td></td><td>_____</td></tr> <tr><td>VANADIUM</td><td></td><td>_____</td></tr> <tr><td>CALCIUM</td><td></td><td>_____</td></tr> <tr><td>LEAD</td><td></td><td>_____</td></tr> <tr><td>OTHER METALS</td><td></td><td>_____</td></tr> <tr><td>LHV. MJ/kg</td><td>D-2382</td><td>_____</td></tr> </tbody> </table>		PROPERTY	ASTM METHOD	MEASURED VALUE	VISCOSITY CPU, 37,7 °C	D-445	_____	DISTILLATION DATA	D-86	_____	50% RECOVERY °C MAX		_____	END POINT °C MAX		_____	SULFUR CONTENT % WT. MAX. (SELECT APPL. METHOD)			BOMB METHOD	D-129	_____	LAMP METHOD	D-1266	_____	ON-TEMP METHOD	D-1552	_____	CARBON RESIDUE (ON 10% BOTTOMS)	% WT. MAX.	_____	CONRADSON	D-189	_____	RAMSBOTTOM	D-524	_____	COPPER STRIP CORROSION PLATE	D-130	_____	3 HRS AT 100 °C MAX			AROMATIC CONTENT	D-1319	_____	ASH CONTENT	D-482	_____	SPECIFIC GRAVITY 60	D-1298	_____	FLASH POINT °C	D-56	_____	POUR POINT °C	D-97	_____	WATER	D-95	_____	FILTERABLE DIRT. MG/100ML	D-2276	_____	TRACE METALS (SATONIC ABSORPTION PREFERRED)	D-2788	_____	SODIUM		_____	POTASSIUM		_____	VANADIUM		_____	CALCIUM		_____	LEAD		_____	OTHER METALS		_____	LHV. MJ/kg	D-2382	_____
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24	I-PENTANE																																																																																										
25	A-PENTANE																																																																																										
26	HEXANE PLUS																																																																																										
27	EPTANE PLUS																																																																																										
28	TOTAL																																																																																										
29	AVG. MOL WT.																																																																																										
30	CORROSIVE AGENTS																																																																																										
31	CONTAMINANTS																																																																																										
32	LHV MJ/m ³ /HR (3.7.2.4)																																																																																										
33	FUEL PRESS. MAX./MIN (KPaG)																																																																																										
34	(PSIG)																																																																																										
35	FUEL TEMP. MAX/MIN °C 284° 284° 284°																																																																																										
36	☒ FUEL PRESS REQD. MAX/MIN (PSIG) 290/232 290/232 290/232																																																																																										
37	FUEL TEMP. REQD. @ GT SKID EDGE MAX/MIN (°C) (note 1)																																																																																										
38	○ RATE OF CHANGE OF LHV (3.7.2.4)																																																																																										
39	REMARKS: _____																																																																																										
40	(1) FUEL GAS TEMPERATURE: MIN -5°C MAX +40 °C _____																																																																																										
41	_____																																																																																										
42	(2) GAS COMPOSITION ACCORDING TO THE CONTRACT AND DVGW _____																																																																																										
43	G260 STANDARD _____																																																																																										
44	_____																																																																																										
45	FUEL SYSTEM PIPING (Refer to Line Spec)																																																																																										
46																																																																																											
47	● BY PASS AND VENT VALVE (3.7.1.3)		■ ISOLATION BLOCK VALVES □ ANSI FLANGE RATING _____																																																																																								
48	○ EXTENT OF FURN. PIPING (SEE SKETCH) (3.5.4.1)		■ NACE MATERIAL STANDARDS (2.10.1.9)																																																																																								
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CONSTRUCTION FEATURES (NOTE 1)		MATERIALS OF CONSTRUCTION (2.10)											
<div style="margin-bottom: 10px;"> <input type="checkbox"/> SPEEDS: GG MAX. CONT. 11140 RPM / TRIP 12254 RPM P.T. MAX. CONT. 10805 RPM TRIP 11320 RPM </div> <div style="margin-bottom: 10px;"> <input type="checkbox"/> LATERAL CRITICAL SPEEDS (DAMPED) (GG/PT) FIRST CRITICAL 2795 / 4923 RPM SECOND CRITICAL 5639 / 8964 RPM THIRD CRITICAL 11123 / 14513 RPM FOURTH CRITICAL 13416 RPM </div> <div style="margin-bottom: 10px;"> <input type="radio"/> TRAIN LATERAL ANALYSIS REQUIRED (2.7.2.3) <input type="radio"/> UNDAMPED STIFFNESS MAP REQUIRED (2.7.2.4e) <input checked="" type="radio"/> TRAIN TORSIONAL ANALYSIS REQUIRED (2.7.4.5) </div> <div style="margin-bottom: 10px;"> <input checked="" type="checkbox"/> TORSIONAL CRITICAL SPEEDS: (note 1) FIRST CRITICAL 1876 RPM SECOND CRITICAL 6088 RPM THIRD CRITICAL RPM FOURTH CRITICAL RPM </div> <div> <input type="checkbox"/> VIBRATION: ALLOWABLE TEST LEVEL (PEAK TO PEAK) </div>	COMPRESSOR ROTOR BLADES AISI 403 COMPRESSOR STATOR VANES AISI 403 SHAFT <u>ASTM A471 TYPE 2</u> BLADE/VANE COATING <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">TURBINE STAGE</th> <th style="text-align: left;">NOZZLES</th> <th style="text-align: left;">BLADES</th> <th style="text-align: left;">WHEELS OR DISCS</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FSX414</td> <td>INC792</td> <td>ASTM A565</td> </tr> <tr> <td>2</td> <td>FSX414</td> <td>INC738</td> <td>ASTM A565</td> </tr> </tbody> </table> COMBUSTORS HASTELLOY X COMPRESSOR CASING ASTM A395 COMBUSTOR CASING ASTM A 516-60 TURBINE CASING ASTM A395	TURBINE STAGE	NOZZLES	BLADES	WHEELS OR DISCS	1	FSX414	INC792	ASTM A565	2	FSX414	INC738	ASTM A565
TURBINE STAGE	NOZZLES	BLADES	WHEELS OR DISCS										
1	FSX414	INC792	ASTM A565										
2	FSX414	INC738	ASTM A565										
<input checked="" type="checkbox"/> ROTATION, VIEWED FROM DRIVEN END <input checked="" type="radio"/> CW <input type="radio"/> CCW		GAUGE BOARDS AND CONTROL PANELS											
AIR COMPRESSOR: STAGES 15 MAX. TIP SPEED 304 mps TYPE AXIAL FLOW RATIO 8.6:1 CASING SPLIT (2.2.3) <input checked="" type="checkbox"/> AXIAL <input checked="" type="checkbox"/> RADIAL ROTOR <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> BUILT UP	GAUGE BOARDS <input checked="" type="checkbox"/> LOCATION ON BASE CONTROL PANELS (3.4.5.1) <input type="radio"/> ON SKID <input type="radio"/> OFF SKID LOCAL <input checked="" type="radio"/> OFF SKID REMOTE WEATHER PROTECTION REQUIRED <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> SPECIFICATION <input type="radio"/> ANNUNCIATOR REQUIRED (3.4.4.8) <input checked="" type="checkbox"/> VISUAL DISPLAY UNIT (VDU) <input checked="" type="checkbox"/> KEYBOARD <input type="radio"/> TABLE MOUNT VDU (3.4.5.2)												
TURBINE: STAGES 2 (H.P./L.P.) MAX. TIP SPEED 496 mps CASING SPLIT (2.2.3) <input checked="" type="checkbox"/> AXIAL <input checked="" type="checkbox"/> RADIAL ROTOR <input checked="" type="checkbox"/> SOLID <input type="checkbox"/> BUILT UP	CONTROL SYSTEMS												
COMBUSTORS: (2.3.2) <input checked="" type="checkbox"/> SINGLE <input type="checkbox"/> MULTIPLE NUMBER <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OIL <input type="checkbox"/> DUAL FUEL MAX. ALLOW TEMP. VARIATION 185 °C APPLICABLE PLANE <u>Turbine Exhaust</u> FUEL NOZZLES PER COMBUSTOR 1	TYPE (3.4.1.5) <input type="radio"/> MECH <input type="radio"/> PNEU <input type="radio"/> HYDRA <input type="radio"/> ELECTRIC <input checked="" type="radio"/> ELECTRONIC <input checked="" type="radio"/> MICROPROCESSOR BASED <input type="radio"/> COMBINED <input type="radio"/> REDUNDANCY (3.4.1.5) SIMPLEX <input type="radio"/> SIGNAL SOURCE <input type="radio"/> SENSITIVITY RANGE TO <input type="radio"/> TIME OF AC OUTAGE RIDEOUT MIN. <input type="radio"/> SHUT OFF VALVES FOR SHUT DOWN SENSORS (3.4.4.10) STARTING SYSTEM (3.4.2.1) <input type="radio"/> MANUAL <input type="radio"/> SEMI AUTOMATIC <input checked="" type="radio"/> AUTOMATIC <input type="radio"/> PURGE (3.4.2.2) MIN NORMAL SHUTDOWN (3.4.4.2) <input type="radio"/> MANUAL <input type="radio"/> SEMI AUTOMATIC <input checked="" type="radio"/> AUTOMATIC <input type="radio"/> SEPARATE SD VALVE TEST DURING OPERATION (3.4.4.3)												
MAINTENANCE INTERVALS, HOURS <input checked="" type="checkbox"/> HOT GAS PATH INSPECTIONS 20000/10000 <input checked="" type="checkbox"/> MAJOR OVERHAULS 40000/80000 <input type="checkbox"/> OTHER (COMBUSTION INSPECTION)	NOTE												
GOVERNOR (3.4.3.1)													
<input checked="" type="radio"/> MFR'S STD. <input type="radio"/> OTHER <input type="radio"/> MAKE <input type="radio"/> MODEL <input type="radio"/> CONSTANT SPEED <input checked="" type="radio"/> VARIABLE SPEED <input type="radio"/> ISOCHRONOUS <input type="radio"/> DROOP REMOTE SHUTDOWN SIGNAL <input checked="" type="radio"/> ELECTRIC <input type="radio"/> PNEUMATIC <input type="radio"/> HYDRAULIC <input type="radio"/> NONE MANUAL SPEED CHANGER RPM 7203 MAX. 10804 MIN. <input type="radio"/> MAINTAIN TURBINE SPEED UPON FAILURE OF CONTROL SIGNAL OR ACTUATOR (3.4.4.7)													








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CONSTRUCTION FEATURES CONTINUED (GAS GENERATOR) (NOTE 1)					
BEARINGS AND BEARING HOUSINGS (2.8)					
RADIAL (NOTES 2 AND 3) <input checked="" type="checkbox"/> TYPE <input checked="" type="checkbox"/> MANUFACTURER <input checked="" type="checkbox"/> LENGHT (mm) <input checked="" type="checkbox"/> SHAFT DIA (mm) <input type="checkbox"/> UNIT LOAD (ACT/ALLOW) (BAR) <input checked="" type="checkbox"/> BASE MATERIAL <input checked="" type="checkbox"/> BABBIT THICKNESS (mm) <input type="checkbox"/> NO. PADS <input type="checkbox"/> LOAD: BETWEEN/ON PAD <input type="checkbox"/> PIVOT: CENTER/OFFSET, % <input type="checkbox"/> DAMPER BEARING BEARING TEMPERATURE DEVICES (2.8.1.3) <input type="radio"/> THERMISTORS <input type="radio"/> TYPE _____ POS TEMP COEFF _____ NEG TEMP COEFF <input type="radio"/> TEMP SWITCH & INDICATOR BY: _____ PURCH _____ MFR <input checked="" type="radio"/> THERMOCOUPPLES <input type="radio"/> SELECTOR SWITCH & IND. BY _____ PURCH _____ MFR <input checked="" type="radio"/> LOCATION-JOURNAL BRG <input type="radio"/> RESISTANCE TEMP DETECTORS <input type="radio"/> RESISTANCE MAT'L _____ <input type="checkbox"/> OHMS <input type="radio"/> SELECTOR SWITCH & IND. BY _____ PURCH _____ MFR NUMBER _____ EA PAD _____ EVERY OTH PAD 2_ PER BRG OTHER TOTAL _____ <input checked="" type="radio"/> LOCATION-THRUST BRG NO. (INACT) _____ EA PAD _____ EVERY OTH PAD 1_ PER BRG OTHER _____ NO. (ACT) _____ EA PAD _____ EVERY OTH PAD 2_ PER BRG OTHER TOTAL _____ <input type="radio"/> MONITOR SUPPLIED BY (3.4.7.5) _____ <input type="radio"/> LOCATION UCP _____ <input type="radio"/> MFR _____ <input type="checkbox"/> MODEL _____ <input type="checkbox"/> SCALE RGE _____ <input type="checkbox"/> ALARM SET @ _____ °C <input checked="" type="radio"/> SHUTDOWN <input type="checkbox"/> SET @ _____ °C <input type="radio"/> TIME DEALY _____ SEC	INLET ELLIPTICAL NP 1.64 3.94 FE430B AS PER MFR	EXHAUST ELLIPTICAL NP 2.52 3.94 FE430B STANDARD	THRUST (NOTE 3) <input checked="" type="checkbox"/> TYPE <input checked="" type="checkbox"/> MANUFACTURER <input type="checkbox"/> UNIT LOAD (ULTIMATE-BAR) <input checked="" type="checkbox"/> UNIT LOAD (SITE RATED-BAR) <input type="checkbox"/> UNIT LOAD (MAX POTEN. BAR) <input type="checkbox"/> NO. OF PADS/AREA (mm ²) <input type="checkbox"/> BASE MATERIAL <input type="checkbox"/> BABBIT THICKNESS (mm) <input type="checkbox"/> PIVOT: CENTER/OFCSET, % LUBRICATION: <input type="checkbox"/> FLOODED <input checked="" type="checkbox"/> DIRECTED THRUST COLLAR: <input checked="" type="checkbox"/> INTEGRAL <input checked="" type="checkbox"/> REPLACEABLE BEARING MATERIAL _____ VIBRATION DETECTORS: <input type="radio"/> SEE ATTACHED API-670 DATA SHEET <input checked="" type="radio"/> TYPE <u>No contact</u> <input type="checkbox"/> MODEL _____ <input checked="" type="checkbox"/> MFR <u>Bently Nevada</u> NO. AT EA SHAFT BEARING _____ TOTAL NO. <u>2</u> <input checked="" type="radio"/> OSCILLATOR-DEMODULATOR SUPPLIED BY <u>NP</u> <input checked="" type="radio"/> MFR <u>Bently Nevada</u> <input type="checkbox"/> MODEL _____ <input checked="" type="radio"/> MONITOR SUPPLIED BY (3.4.7.8.2) <u>NP</u> <input checked="" type="radio"/> LOCATION <u>U.C.P.</u> ENCLOSURE _____ <input checked="" type="radio"/> MFR <u>Bently Nevada</u> <input type="checkbox"/> MODEL _____ <input type="radio"/> SCALE RGE _____ <input type="checkbox"/> ALARM SET @ _____ uM <input type="radio"/> SHTDWN <input type="checkbox"/> SET @ _____ °C <input type="radio"/> TIME DELAY _____ SEC	ACTIVE TILTING PADS BHV 458.6	INACTIVE RING NP
NOTES					

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PURCHASER CONNECTIONS (

37								
38	CONNECTION							
39		DESIGN	SIZE	FACING	POSITION	FLANGED	MATING FLG	GAS
40		APPROVAL		& RATING	(2.4.1)	OR	& GASKET	VELOCITY
41		REQ'D				STUDD	BY VENDOR	m/SEC
42		(2.10.4.6.4)				(2.4.1)	(2.4.6.4)	
43		INLET						
44		EXHAUST						
45	FUEL SUPPLY							
46								
47	STEAM							
48	WATER							



ADDITIONAL INSTRUMENTS										
DESCRIPTION	INSTRUMENT TYPE:		INSTRUMENT LOCATION			TRANSMITTERS FURNISHED BY		CONTROL ROOM RECEIVERS FURNISHED BY		
	INDICATING	RECORDING	LOCAL	LOCAL PANEL	U.C.P.	VENDOR	OTHERS	VENDOR	OTHERS	
GAS GENERATOR										
TACHOMETER	●	○	○	○	●	●	○	○	○	
Δ P AIR INLET SYSTEM	●	○	●	○	●	●	○	○	○	
COMPRESSOR DISCHARGE PRESSURE	●	○	●	○	●	●	○	○	○	
FUEL FILTER Δ P	○	○	○	○	○	○	○	○	○	
FUEL SUPPLY PRESSURE	●	○	●	○	●	●	○	○	○	
STARTING GAS SUPPLY PRESSURE	○	○	○	○	○	○	○	○	○	
STARTING GAS EXHAUST PRESSURE	○	○	○	○	○	○	○	○	○	
TEMP COMBUSTOR MEASUREMENT (6 PTS MIN) (2.3.2)	●	○	○	○	○	○	○	○	○	
TEMP GAS TURB CONTROL PLANE (6 PTS MIN)	●	○	○	○	○	○	○	○	○	
INLET AIR TEMP	●	○	●	○	●	●	○	○	○	
TEMP GG COMPRESSOR DISCHARGE	●	○	●	○	●	●	○	○	○	
TEMP THRUST BEARING OIL DRAIN	●	○	●	○	●	●	○	○	○	
TEMP EACH BEARING SUMP (ANTI FRICTION TYPE)	○	○	○	○	○	○	○	○	○	
TEMP FUEL MANIFOLD	○	○	○	○	○	○	○	○	○	
TEMP LUBE OIL RESERVOIR (FIRED HOUR METER)	●	○	●	○	●	●	○	○	○	
A) NO. STARTS COUNTER	○	○	○	○	●	○	○	○	○	
B) START SEQUENCE TIMER	○	○	○	○	●	○	○	○	○	
LUBE OIL RESERVOIR LEVEL	●	○	●	○	●	●	○	○	○	
LUBE OIL PUMP INDICATORS (NO. ____)	●	○	○	●	●	●	○	○	○	
LUBE OIL COOLER OIL INLET TEMP	○	○	○	○	○	○	○	○	○	
LUBE OIL COOLER OIL OUTLET TEMP	○	○	○	○	○	○	○	○	○	
LUBE OIL COOLER COOLANT INLET TEMP	○	○	○	○	○	○	○	○	○	
LUBE OIL COOLER COOLANT OUTLET TEMP	○	○	○	○	○	○	○	○	○	
LUBE OIL FILTER Δ P	●	○	○	●	●	●	○	○	○	
LUBE OIL PRESSURE EACH LEVEL (NO. ____)	●	○	○	●	●	●	○	○	○	
CONTROL OIL PRESSURE	●	○	●	○	●	●	○	○	○	
SITE FLOW INDICATOR EACH DRAIN (NO. ____)	○	○	●	○	○	○	○	○	○	
INLET GUIDE VANE POSITION INDICATOR	●	○	●	○	●	●	○	○	○	
EXHAUST DUCT Δ P INDICATOR	○	○	○	○	○	○	○	○	○	
ENCLOSURE COOLING AIR EXHAUST TEMP	●	○	●	○	●	●	○	○	○	
POWER TURBINE										
TACHOMETER	●	○	○	○	●	●	○	○	○	
EXHAUST TEMP (2 PTS MIN)	●	○	●	○	●	●	○	○	○	
JOURNAL BEARING TEMP	●	○	●	○	●	●	○	○	○	
THRUST BEARING TEMP	●	○	●	○	●	●	○	○	○	
BEARING DRAIN TEMP	●	○	●	○	○	●	○	○	○	
SITE FLOW INDICATOR EACH DRAIN (NO. ____)	○	○	●	○	○	○	○	○	○	
LUBE OIL INLET PRESSURE	●	○	○	●	●	●	○	○	○	
LUBE OIL INLET TEMP	●	○	●	○	●	●	○	○	○	



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1	ADDITIONAL ALARMS AND SHUTDOWNS (3.4.4) (Refer to Gas Turbine P&I D SOM5082054)							
2	DESCRIPTION	APPLIES TO:		(3.4.4.9.5) ANNUNCIATOR POINT IN VENDOR FURNISHED CONTROL PANEL (1)		SENSING DEVICES TO BE FURNISHED BY		INDICATING LIGHT ONLY (2)
3		AUX. AREA GAS GEN.	POWER TURBINE	ALARM	SHUT- DOWN	VENDOR	OTHERS	
4								
5	RADIAL SHAFT VIBRATION	●	●	○	○	●	○	<input type="checkbox"/>
6	AXIAL THRUST POSITION	●	●	○	○	●	○	<input type="checkbox"/>
7	OVERSPEED (1)	●	●	●	●	●	○	<input type="checkbox"/>
8	CASING VIBRATION	●	●	●	●	●	○	<input type="checkbox"/>
9	HIGH THRUST BEARING TEMP	●	●	●	●	●	○	<input type="checkbox"/>
10	HIGH RADIAL BEARING TEMP	●	●	●	●	●	○	<input type="checkbox"/>
11	LOW FUEL SUPPLY PRESSURE	●	○	●	○	●	○	<input type="checkbox"/>
12	HIGH FUEL FILTER Δ P	○	○	○	○	○	○	<input type="checkbox"/>
13	GAS TURBINE TEMPERATURE SPREAD HIGH	○	●	●	●	●	○	<input type="checkbox"/>
14	EXHAUST OVER TEMP	○	●	●	●	●	○	<input type="checkbox"/>
15	FAILURE OF OVER-TEMP SHUTDOWN DEVICE	●	●	●	●	●	○	<input type="checkbox"/>
16	HIGH INLET AIR Δ P EACH FILTER	●	○	●	●	●	○	<input type="checkbox"/>
17	COMBUSTOR FLAMEOUT (1)	●	○	○	●	●	○	<input type="checkbox"/>
18	CHIP DETECTOR, ANTI FRICTION BEARING	○	○	○	○	○	○	<input type="checkbox"/>
19	FAILURE STARTING CLUTCH TO ENGAGE OR DISENGAGE	●	○	●	○	●	○	<input type="checkbox"/>
20	LOW OIL PRESSURE (NO. ____)	●	●	●	●	●	○	<input type="checkbox"/>
21	HIGH LUBE OIL TEMP	●	●	●	●	●	○	<input type="checkbox"/>
22	LOW LUBE OIL RESERVOIR LEVEL	●	○	●	●	●	○	<input type="checkbox"/>
23	HIGH LUBE OIL RESERVOIR LEVEL	●	○	●	○	●	○	<input type="checkbox"/>
24	HIGH OIL FILTER Δ P (NO. ____)	●	○	●	○	●	○	<input type="checkbox"/>
25	LUBE OIL SPARE PUMP OPERATING	●	○	●	○	●	○	<input type="checkbox"/>
26	LOW CONTROL OIL PRESSURE	●	○	●	○	●	○	<input type="checkbox"/>
27	LOW STARTING GAS PRESSURE	○	○	○	○	○	○	<input type="checkbox"/>
28	ANTI-ICING SYSTEM - NOT OPERATING	○	○	○	○	○	○	<input type="checkbox"/>
29	LOW D.C. VOLTAGE	●	○	●	○	●	○	<input type="checkbox"/>
30	EMERGENCY D.C. PUMP OPERATING	●	○	●	○	●	○	<input type="checkbox"/>
31	RESERVOIR HEATER "ON"	●	○	●	○	●	○	<input type="checkbox"/>
32	IMPLOSION DOOR OPEN	○	○	○	○	○	○	<input type="checkbox"/>
33	EXTERNAL PERMISSIVE START SIGNAL			●	○	●	●	<input type="checkbox"/>
34	EXTERNAL SHUTDOWN SIGNAL			○	●	●	●	<input type="checkbox"/>
35	LOSS OF AUX COOLING AIR			○	○	○	○	<input type="checkbox"/>
36	LAMP TEST PUSH BUTTON			○	○	○	○	<input type="checkbox"/>
37	ENCLOSURE HIGH TEMPERATURE	●	●	●	●	●	○	<input type="checkbox"/>
38	CONTROL SIGNAL FAILURE			●	○	●	○	<input type="checkbox"/>
39	CONTROL SYSTEM ACTUATOR FAILURE			●	●	●	○	<input type="checkbox"/>
40	GOVERNOR FAILURE			●	●	●	○	<input type="checkbox"/>
41	VENTILATION FANS FAILURE (after 45 sec.)	●	○	○	●	●	○	<input type="checkbox"/>
42		○	○	○	○	○	○	<input type="checkbox"/>
43	(1) VENDOR TO ADVISE METHOD OF ANNUNCIATION							
44	(2) VDU MAY USE MESSAGE INDICATOR							



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1 INSPECTION AND TESTING (Refer to Gas turbine QCP), LUBRICATION, WEIGHTS																																																																
2 SHOP INSPECTION AND TESTS : (4.1.4) - 3 REFER TO QCP SOM6631784	WIT- OBSER VED	REQ'D NESSED VED	LUBRICATION SYSTEMS (2.9) ● SEE API 614 DATA SHEETS ● LUBE OIL VISCOSITY (2.9.8) VG32 _____ <input type="radio"/> POWER TURBINE <input type="radio"/> LOAD GEAR <input type="radio"/> DRIVEN EQUIPMENT <input type="radio"/> AUXILIARIES <input type="radio"/> COMBINED LUBE OIL/SEAL SYSTEM (2.9.5) <input type="radio"/> SYSTEM DESIGNED FOR SYNTHETIC LUBRICANT (2.9.2) LUBE SPECIFICATION _____ <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> GAS GENERATOR <input type="checkbox"/> LOAD GEAR </div> <div style="width: 45%;"> POWER TURBINE <input type="checkbox"/> DRIVEN EQUIPMENT </div> </div>																																																													
4 SHOP INSPECTION (4.1.4.1) <input type="radio"/> 5 CLEANLINESS (4.2.3.3) <input type="radio"/> 6 HYDROSTATIC (4.3.2) <input type="radio"/> <input type="radio"/> <input type="radio"/> 7 MECHANICAL RUNNING TEST (4.3.3) <input type="radio"/> <input type="radio"/> <input type="radio"/> 8 CONTRACT IDLING 9 <input type="checkbox"/> COUPLING <input type="checkbox"/> ADAPTOR (S) 10 <input type="checkbox"/> CONTRACT SHOP 11 <input type="checkbox"/> PROBES <input type="checkbox"/> PROBES 12 TAPE RECORD VIB DATA (4.3.3.5) <input type="radio"/> 13 PRERFORMANCE TEST (4.3.4.1) <input type="radio"/> <input type="radio"/> <input type="radio"/> 14 COMPLETE UNIT TEST (4.3.4.2) <input type="radio"/> <input type="radio"/> <input type="radio"/> 15 LOAD GEAR TEST (4.3.4.3) <input type="radio"/> <input type="radio"/> <input type="radio"/> 16 SOUND LEVEL TEST (4.3.4.4) <input type="radio"/> <input type="radio"/> <input type="radio"/> 17 AUXILIARY EQUIPMENT (4.3.4.5) <input type="radio"/> <input type="radio"/> <input type="radio"/> 18 POST TEST INSPECTION (4.3.4.6) <input type="radio"/> <input type="radio"/> <input type="radio"/> 19 HYDRAULIC COUPLING INSP (4.3.4.7) <input type="radio"/> <input type="radio"/> <input type="radio"/> 20 SPARE PARTS (4.3.4.9) <input type="radio"/> <input type="radio"/> <input type="radio"/> 21 GOVERNOR RESPONSE TEST (4.3.4.8) <input type="radio"/> <input type="radio"/> <input type="radio"/> 22 TORSIONAL VIBE MEAS (4.3.4.2) <input type="radio"/> <input type="radio"/> <input type="radio"/> 23 FIRE PROTECTION (4.3.4.10) <input type="radio"/> <input type="radio"/> <input type="radio"/> 24 OTHER (4.3.4.11) _____ <input type="radio"/> <input type="radio"/> <input type="radio"/> 25 _____ <input type="radio"/> <input type="radio"/> <input type="radio"/>			MOUNTING ARRANGEMENT <input type="radio"/> CONSOLE <input type="radio"/> COLONY ● BASEPLATE																																																													
26 ● MATERIALS INSPECTION REQUIRMENTS (4.2.1.3) 27 <input type="radio"/> SPECIAL CHARPY TESTING (2.10.5) 28 ● RADIOGRAPHY REQUIRED FOR REFER TO QCP SOM6631784 29 ● MAGNETIC PARTICLE REQUIRED FOR REF. TO QCP SOM6631784 30 ● LIQUID PENETRANT REQUIRED FOR REFER TO QCP SOM6631784 31 ● ULTRASONIC REQUIRED FOR REFER TO QCP SOM6631784 32 ● WELD INSPECTION (2.10.4.6.1) REFER TO QCP SOM6631784 33			WEIGHTS <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> DRY INSTALLED SHIPPING WT.(kg) WT.(kg) </div> <div style="width: 45%;"> DIMEN LxWxH(m) </div> </div> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">GG TURBINE</td> <td style="width: 20%;">main skid/later</td> <td style="width: 20%;">_____</td> <td style="width: 20%;">_____</td> </tr> <tr> <td>G.G. TURB. ROTOR</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>POWER TURB.</td> <td>incl.main skid</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>P.T. ROTOR</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>LUBE SYSTEM</td> <td>incl.main skid</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>DRIVEN EQUIP</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>FILTER</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>INLET SILENCER</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>EXHAUST SILENCER</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>DUCTING</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>MAX ERECTION WEIGHT (kg) later</td> <td>ITEM main skid G.T.</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>MAX MAINT. WEIGHT (kg)</td> <td>ITEM</td> <td>_____</td> <td>_____</td> </tr> </table>		GG TURBINE	main skid/later	_____	_____	G.G. TURB. ROTOR	_____	_____	_____	POWER TURB.	incl.main skid	_____	_____	P.T. ROTOR	_____	_____	_____	LUBE SYSTEM	incl.main skid	_____	_____	DRIVEN EQUIP	_____	_____	_____	FILTER	_____	_____	_____	INLET SILENCER	_____	_____	_____	EXHAUST SILENCER	_____	_____	_____	DUCTING	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	MAX ERECTION WEIGHT (kg) later	ITEM main skid G.T.	_____	_____	MAX MAINT. WEIGHT (kg)	ITEM	_____	_____
GG TURBINE	main skid/later	_____	_____																																																													
G.G. TURB. ROTOR	_____	_____	_____																																																													
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_____	_____	_____	_____																																																													
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MAX MAINT. WEIGHT (kg)	ITEM	_____	_____																																																													
34 MISCELLANEOUS: 35 <input type="radio"/> VENDOR'S REVIEW & COMMENTS ON PURCHASER'S PIPING & FOUNDATION (2.1.17) (3.5.4.3) 36 <input type="radio"/> FINAL ASSEMBLY CLEARANCES (4.2.1.1.e) 37 <input type="radio"/> WELDING HARDNESS TESTING (4.2.3.4) 38 <input type="radio"/> COORD. MEETING SITE (5.1.3) _____ 39 <input type="radio"/> SPEED-TORQUE CURVE (5.3.4-a) 40 <input type="radio"/> INCREASE POWER FOR STEAM/WATER (5.3.4-b) 41 <input type="radio"/> EFFECTS OF AMB. COND. ON EXHAUST FLOW (5.3.4-c) 42 <input type="radio"/> SPECIAL TEST PROCEDURES (5.3.5-a) 43 <input type="radio"/> PURCHASER REVIEW OF CAMP./GOODMAN DIAG. (5.3.5-b) 44 <input type="radio"/> VENDOR WITNESS ALIGMENT (2.1.17) 45 <input type="radio"/> TECHINICAL DATA MANUAL (5.2.7) 46 <input type="radio"/> NO OF PROPOSAL MANUAL (5.3.1) _____ 47 <input type="radio"/> RUN DOWN CURVES (5.3.4-b) 48 <input type="radio"/> _____			REMARKS : _____ _____																																																													

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