APPENDIX A—GENERAL PURPOSE STEAM TURBINE DATA SHEETS

GENERAL-PURPOSE STEAM TURBINE
DATA SHEET
SI UNITS

JOB NO. _____ ITEM NO. _____
PURCHASE ORDER NO. _____
SPECIFICATION NO. _____
REVISION NO. _____ DATE _____
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APPLICABLE TO: ○ PROPOSAL ○ PURCHASE ○ AS BUILT
FOR _____ UNIT _____
SITE _____ NO. REQUIRED _____
SERVICE _____ DRIVEN EQUIPMENT _____
MANUFACTURER _____ MODEL _____ SERIAL NO. _____

NOTE: ○ **INDICATES INFORMATION COMPLETED BY PURCHASER** ☐ **BY MANUFACTURER** ◉ **BY MFGR IF NOT BY PURCHASER**

○ OPERATING CONDITIONS

OPERATING POINT	POWER, kW	SPEED, RPM
NORMAL		
RATED		
OTHER (4.1.4)		

○ DUTY, SITE AND UTILITY DATA

APPLICATION IS (SPARED, UNSPARED) _____
○ WIDE SPEED RANGE ○ RAPID START
○ SLOW ROLL REQ. (4.10.4) ○ HAND VALVES REQ. (5.4.1.5)
DUTY ○ CONTINUOUS ○ STANDBY
○ UNATTENDED AUTO START (4.1.6)
LOCATION (4.1.14) ○ INDOOR ○ HEATED ○ UNHEATED
○ OUTDOOR ○ ROOF ○ W/O ROOF
AMBIENT TEMP., °C: MIN. _____ MAX _____
UNUSUAL CONDITIONS ○ DUST ○ SALT ATMOSPHERE
(4.1.14) ○ OTHER _____
ELECT. AREA (4.1.13) CLASS _____ GROUP _____ DIV _____
○ NON-HAZARDOUS
CONTROL POWER V _____ PH. _____ HZ _____
AUX. MOTORS V _____ PH. _____ HZ _____
COOLING WATER: PRESS, BARG _____ Δ P, PSI _____
FLOW, m^3/hr _____ Δ T, °C: _____
ALLOW. SOUND PRESS LEVEL (4.1.12) _____ dBA @ _____ m

○ STEAM CONDITIONS

	MAX	NORMAL	MIN.
INLET PRESS, (BARG)(kPa G)			
INLET TEMP,°C			
EXHAUST PRESS (BARG) (mmHGA)			

○ STEAM CONTAMINANTS (4.11.1.7)

TURBINE DATA

☐ ALLOW SPEEDS, RPM, MAX _____ MIN _____
☐ MAX CONT SPEED, RPM (3.1.10) _____
☐ TRIP SPEED, RPM _____ BLADE TIP VEL, mm/s _____
☐ FIRST CRITICAL SPEED, RPM (4.8.2.1) _____
☐ EXH. TEMP °C _____ NORMAL _____ NO LOAD
☐ POTENTIAL MAX POWER, KW (3.1.20) _____
☐ MAX. NOZZLE STEAM FLOW, kg/hr _____
ROTATION FACING GOVERNOR END ○ CCW ○ CW
○ DRIVEN EQUIPMENT THRUST, N (4.9.11) _____
(VERTICAL TURBINE) (4.9.3)
○ WATER PIPING FURN. BY ○ VENDOR ○ OTHERS
○ OIL PIPING FURN. BY ○ VENDOR ○ OTHERS

☐ PERFORMANCE

OPERATING POINT/ STEAM CONDITION	NO. HAND VALVES OPEN (5.4.1.4)	STEAM RATE, kg/kW-HR
NORMAL/NORMAL (CERTIFIED SR)		
RATED/NORMAL		
(1) MIN. INLET - MAX EXHAUST		

(1) ○ RATED ○ _____% RATED ○ NORMAL (4.1.4)

APPLICABLE SPECIFICATION

API-611 OTHER _____

CONSTRUCTION

TURBINE TYPE ○ HORIZ ○ VERTICAL
NO STAGES _____ WHEEL DIA., mm _____
ROTOR: ☐ BUILT UP ☐ SOLID ☐ OVERHUNG ☐ BETWEEN BRGS
BLADING ☐ 2 ROW ☐ 3 ROW ☐ RE-ENTRY
CASING SPLIT ☐ AXIAL ☐ RADIAL
CASING SUPPORT ☐ CENTERLINE ☐ FOOT
○ VERT. JACKSCREWS (4.2.13)
VERTICAL TURBINE FLANGE
○ NEMA "P" BASE ○ OTHER (4.4.9) _____
TRIP VALVE ☐ INTEGRAL ☐ SEPARATE
INTERSTAGE SEALS ☐ LABYRINTH ☐ CARBON
END SEALS ☐ CARBON RING, NO/BOX _____
☐ LABYRINTH ☐ MATERIAL _____
☐ MECHANICAL ☐ MFB _____
TYPE RADIAL BEARINGS (4.9.1) _____
TYPE THRUST BEARING (4.9.2) _____
☐ CALCULATED THRUST LOAD _____ BAR (4.9.15)
☐ BEARING MFGR's ULTIMATE RATING _____ BAR
THRUST COLLAR (4.9.10.2) ☐ REPLACEABLE ☐ INTEGRAL ☐ NONE
◉ LUBE OIL VISCOSITY (4.10.3) ISO GRADE _____
LUBRICATION ○ RING OILED ○ PRESSURE ○ GREASE
OIL MIST (4.9.19)
○ PURGE OIL MIST ○ PURE OIL MIST
○ BEARING HOUSING OILER TYPE _____

CASING DESIGN	INLET	EXHAUST
MAX. ALLOW. PRESS, BARG		
MAX ALLOW. TEMP, °C		
HYDRO TEST PRESS., BARG		

GENERAL-PURPOSE STEAM TURBINE DATA SHEET SI UNITS

JOB NO. _____ ITEM NO. _____

REVISION NO. _____ DATE _____

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MATERIALS

HIGH PRESSURE CASING _____ GRADE _____

EXHAUST CASING _____ GRADE _____

NOZZLES _____ GRADE _____

BLADING _____ GRADE _____

WHEELS _____ GRADE _____

SHAFT _____ GRADE _____

☒ SHAFT COATING UNDER PACKING (4.6.2.3)

MATERIAL _____

APPLICATION METHOD _____

THICKNESS _____

GOV. VALVE TRIM _____

INLET STRAINER _____ MESH SIZE _____

COUPLING SPACER/HUBS _____

COUPLING DIAPHRAGMS (DISKS) _____

STEAM CONTROL

SPEED CHANGER ○ MANUAL ○ PNEUM. ○ ELECT (5.4.2.3)

MFR. _____ MODEL _____

CONTROLLED VARIABLE	OPERATING RANGE	CONTROL SIGNAL
SPEED	___ TO _____ RPM ;/mA	___ TO _____ BARG/mA
	___ TO _____ RPM ;/mA	___ TO _____ BARG/mA

CONNECTIONS (4.4.1)

	SIZE	RAT'G	FAC'G	POS.	○ MATING PARTS FURNISHED (4.4.6.5)
INLET					
EXHAUST					
DRAINS					

COUPLINGS (5.2) ○ **SEE SEPARATE DATA SHEET**

LOCATION	TURBINE	DRIVEN
○ MAKE		
☒ MODEL		
☐ RATING (HP/100RPM)		
○ LUBRICATION		
☒ LIMITED END FLOAT		
☐ SPACER LENGTH		
☒ SERVICE FACTOR		

○ TURBINE VENDOR MOUNTS HALF COUPLING

DYN. BALANCE CL (5.2.8)

○ AGMA CLASS 8 ○ OTHER _____

TURBINE SHAFT ☐ TAPER ☐ STRA'T ☐ HYDRAULIC FIT HUB

○ MOUNTING PLATES

TYPE: (5.3.1.1) ○ BASEPLATE ○ SOLEPLATE

FURN. BY: ○ TURBINE VENDOR

○ DRIVEN EQUIPMENT VENDOR ○ OTHER _____

EQUIPMENT TO BE MOUNTED: (5.3.2.1)

○ TURBINE ○ GENERATOR ○ GEAR

○ PUMP ○ OTHER _____

○ UNGROUTED BASEPLATE (5.3.2.4)

○ SUITABLE FOR COLUMN MOUNTING

○ TURBINE VENDOR FURNISHES SUBPLATES

○ ACCESSORY EQUIPMENT BY VENDOR

○ REMOTE TRIP ○ SOLENOID

☐ VACUUM BREAKER (5.4.2.9)

○ AUTOMATIC STEAM SEALING SYSTEM (4.7.5)

GLAND VACUUM DEVICE WITH: (4.7.4)

○ WATER EDUCTOR ○ STEAM EJECTOR

○ SENTINEL WARNING VALVE (5.4.5.2)

☐ INSULATION, TYPE: _____

○ TACHOMETER (5.4.4.1), TYPE _____

☒ MFR. _____ ☒ MODEL _____

○ MOUNTED BY _____

○ THERMAL RELIEF VALVES (5.4.4.7.3)

○ SHUTOFF VALVES FOR SHUTDOWN SENSORS

○ LOCAL GAUGE BOARD WITH FOLLOWING PRESSURE GAUGES: (5.4.3.1)

○ THROTTLE STEAM ○ FIRST STAGE

○ NOZZLE RING ○ EXHAUST

○ LIQUID FILLED GAUGES (5.4.4.4)

○ INSTRUMENT PANEL (5.4.3.2.1)

○ BASEMOUNT

○ FREE STANDING

EXTERNAL LUBE OIL SYSTEM

☐ CIRCULATING (4.10.5) ☒ PRESSURE (4.10.6)

VENDOR FURNISH SYSTEM FOR: ○ TURBINE

○ OTHER _____

OIL SYSTEM TO BE: ○ CONSOLE TYPE

○ MOUNTED ON BASEPLATE

OIL SYSTEM TO INCLUDE FOLLOWING EQUIPMENT: (4.10.5)(4.10.7)

☒ STANDBY OIL PUMP: TYPE DRIVER _____

○ LOW OIL PRESS ALARM SWITCH

○ LOW OIL PRESS TRIP SWITCH

○ HEATER (4.10.8) ○ ELECTRIC ○ STEAM

○ OIL DRAIN SIGHT FLOW INDICATORS

☐ HAND OPERATED STANDBY PUMP

VIBRATION AND POSITION DETECTORS (5.4.6)

○ FURNISH PROVISIONS FOR MOUNTING NON-CONTACTING VIBRATION PROBES (4.9.32)

○ FURN. AXIAL POSITION PROBES ☒ NO. OF PROBES _____

☒ MFR. _____ ☒ MODEL _____

○ FURN. RADIAL PROBES ○ NO. OF PROBES PER BEARING _____

☒ MFR. _____ ☒ MODEL _____

FURNISH BEARING METAL TEMP SENSORS FOR:

○ RADIAL BEARINGS ○ THRUST BEARINGS

TURBINE VENDOR SUPPLIES AND CALIBRATES MONITORS FOR:

○ AXIAL AND RADIAL PROBES

○ BEARING TEMPERATURE SENSORS

○ SEE SEPARATE DATA SHEETS FOR DETAILS

GENERAL-PURPOSE STEAM TURBINE
DATA SHEET
SI UNITS

JOB NO. _____ ITEM NO. _____

REVISION NO. _____ DATE _____

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ENGINEERING REQUIREMENTS

- ○ SUPPLY ENGR. DATA FOR LATERAL/TORSIONAL ANALYSES (4.8.1.7)
- ○ CALCS AND/OR DATA FOR SEPARATION MARGIN (4.8.2.2)
- ○ TRAIN TORSIONAL VIBRATION ANALYSIS (4.8.3.5)
- ○ WEIGHT OF HALF KEYS (4.8.4.2)
- ○ RESIDUAL UNBALANCE CHECK (4.8.4.3)

REMARKS: _____

INSPECTION REQUIREMENTS

- ○ 100% ULTRASONIC INSPECTION AFTER ROUGH MACHINING (6.2.2.3.1)
- ○ USE INSPECTOR'S CHECK LIST
- CASTING SURFACE INSPECTION (6.2.2.1.1) ○ MSS SP-55 ○ OTHER _____
- ○ WELD INSPECTION (6.2.2.1.2)
- SPECIAL NDT INSPECTION (6.2.1.3)

COMPONENT	MAG. PART.	DYE PENET.	RADIO-GRAPHIC	ULTRA-SONIC	OBSE-RVED	WITN.
T&T VALVE					○	○
STM CHEST					○	○
CASING					○	○
PIPING					○	○
ROTOR					○	○
					○	○
					○	○

REMARKS: _____

○ PREPARATION FOR SHIPMENT

TURBINE AUX. EQUIPMENT AND SPARE ROTOR PREPARED FOR (6.4.1):

○ DOMESTIC SHIPMENT ○ EXPORT SHIPMENT

REMARKS: _____

TESTS (6.3)	REQ'D.	WITN.	OBSVD. (6.1.5)
HYDROSTATIC (6.3.2.1)	●	○	○
MECH. RUN (6.3.3)	●	○	○
	○	○	○
PERFORMANCE (6.3.4.1)	○	○	○
COMPLETE UNIT (6.3.4.2)	○	○	○
GEAR (6.3.4.3)	○	○	○
SOUND LEVEL (6.3.4.4)	○	○	○
AUX. EQUIPMENT (6.3.4.5)	○	○	○
_____	○	○	○
_____	○	○	○

REMARKS: _____

WEIGHTS

- ☐ TURBINE _____ kg
- ☐ ROTOR _____ kg
- ☐ TURBINE UPPER HALF CASING _____ kg
- ☐ MAX MAINTENANCE (IDENTIFY) _____ kg
- ☐ T & T VALVE _____ kg
- ☐ BASEPLATE _____ kg
- ☐ MISC. _____ kg
- ☐ TOTAL SHIPPING WEIGHT _____ kg

REMARKS: _____

GENERAL-PURPOSE STEAM TURBINE DATA SHEET U.S. CUSTOMARY UNITS

JOB NO. _____ ITEM NO. _____
PURCHASE ORDER NO. _____
SPECIFICATION NO. _____
REVISION NO. _____ DATE _____
PAGE 1 OF 3 BY _____

APPLICABLE TO: ○ PROPOSAL ○ PURCHASE ○ AS BUILT
FOR _____ UNIT _____
SITE _____ NO. REQUIRED _____
SERVICE _____ DRIVEN EQUIPMENT _____
MANUFACTURER _____ MODEL _____ SERIAL NO. _____

NOTE: ○ **INDICATES INFORMATION COMPLETED BY PURCHASER** ☐ **BY MANUFACTURER** ◎ **BY MFGR IF NOT BY PURCHASER**

○ OPERATING CONDITIONS

OPERATING POINT	POWER, BHP	SPEED, RPM
NORMAL		
RATED		
OTHER (4.1.4)		

○ DUTY, SITE AND UTILITY DATA

APPLICATION IS (SPARED, UNSPARED) _____
○ WIDE SPEED RANGE ○ RAPID START
○ SLOW ROLL REQ. (4.10.4) ○ HAND VALVES REQ. (5.4.1.5)
DUTY ○ CONTINUOUS ○ STANDBY
○ UNATTENDED AUTO START (4.1.6)
LOCATION (4.1.14) ○ INDOOR ○ HEATED ○ UNHEATED
○ OUTDOOR ○ ROOF ○ W/O ROOF
AMBIENT TEMP., °F: MIN. _____ MAX _____
UNUSUAL CONDITIONS (4.1.14) ○ DUST ○ SALT ATMOSPHERE ○ OTHER _____
ELECT. AREA (4.1.13) CLASS _____ GROUP _____ DIV _____
○ NON-HAZARDOUS
CONTROL POWER V _____ PH. _____ HZ _____
AUX. MOTORS V _____ PH. _____ HZ _____
COOLING WATER: PRESS, PSIG _____ Δ P, PSI _____
FLOW, GPM _____ Δ T, °F: _____
ALLOW. SOUND PRESS LEVEL (4.1.12) _____ dBA @ _____ FT

○ STEAM CONDITIONS

	MAX	NORMAL	MIN.
INLET PRESS, PSIG			
INLET TEMP,°F			
EXHAUST PRESS (PSIG) (IN. HGA)			
○ STEAM CONTAMINANTS (4.11.1.7)			

TURBINE DATA

☐ ALLOW SPEEDS, RPM, MAX _____ MIN _____
☐ MAX CONT SPEED, RPM (3.1.10) _____
☐ TRIP SPEED, RPM _____ BLADE TIP VEL, FPS _____
☐ FIRST CRITICAL SPEED, RPM (4.8.2.1) _____
☐ EXH. TEMP °F _____ NORMAL _____ NO LOAD
☐ POTENTIAL MAX POWER, BHP (3.1.20) _____
☐ MAX. NOZZLE STEAM FLOW, LBS/HR _____
ROTATION FACING GOVERNOR END ○ CCW ○ CW
○ DRIVEN EQUIPMENT THRUST, LBS (4.9.11) _____
(VERTICAL TURBINE) (4.9.3)
○ WATER PIPING FURN. BY ○ VENDOR ○ OTHERS
○ OIL PIPING FURN. BY ○ VENDOR ○ OTHERS

☐ PERFORMANCE

OPERATING POINT/ STEAM CONDITION	NO. HAND VALVES OPEN (5.4.1.5)	STEAM RATE, LBS/HP-HR
NORMAL/NORMAL (CERTIFIED SR)		
RATED/NORMAL		
(1) MIN. INLET - MAX EXHAUST		

(1) ○ RATED ○ _____% RATED ○ NORMAL (4.1.4)

APPLICABLE SPECIFICATION

API-611 OTHER _____

CONSTRUCTION

TURBINE TYPE ○ HORIZ ○ VERTICAL
NO STAGES _____ WHEEL DIA., IN. _____
ROTOR: ☐ BUILT UP ☐ SOLID ☐ OVERHUNG ☐ BETWEEN BRGS
BLADING ☐ 2 ROW ☐ 3 ROW ☐ RE-ENTRY
CASING SPLIT ☐ AXIAL ☐ RADIAL
CASING SUPPORT ☐ CENTERLINE ☐ FOOT
○ VERT. JACKSCREWS (4.2.13)
VERTICAL TURBINE FLANGE
○ NEMA "P" BASE ○ OTHER (4.4.9) _____
TRIP VALVE ☐ INTEGRAL ☐ SEPARATE
INTERSTAGE SEALS ☐ LABYRINTH ☐ CARBON
END SEALS ☐ CARBON RING, NO/BOX _____
☐ LABYRINTH ☐ MATERIAL _____
☐ MECHANICAL ☐ MFR _____
TYPE RADIAL BEARINGS (4.9.1) _____
TYPE THRUST BEARING (4.9.2) _____
☐ CALCULATED THRUST LOAD _____ PSI (4.9.15)
☐ BEARING MFGR's ULTIMATE RATING _____ PSI
THRUST COLLAR (4.9.10.2) ☐ REPLACEABLE ☐ INTEGRAL ☐ NONE
◎ LUBE OIL VISCOSITY (4.10.3) ISO GRADE _____
LUBRICATION ○ RING OILED ○ PRESSURE ○ GREASE
OIL MIST (4.9.19)
○ PURGE OIL MIST ○ PURE OIL MIST
○ BEARING HOUSING OILER TYPE _____

CASING DESIGN	INLET	EXHAUST
MAX. ALLOW. PRESS, PSIG		
MAX ALLOW. TEMP, °F		
HYDRO TEST PRESS., PSIG		

GENERAL-PURPOSE STEAM TURBINE DATA SHEET U.S. CUSTOMARY UNITS

JOB NO. _____ ITEM NO. _____

REVISION NO. _____ DATE _____

 BY _____

MATERIALS

HIGH PRESSURE CASING _____ GRADE _____

EXHAUST CASING _____ GRADE _____

NOZZLES _____ GRADE _____

BLADING _____ GRADE _____

WHEELS _____ GRADE _____

SHAFT _____ GRADE _____

☒ SHAFT COATING UNDER PACKING (4.6.2.3)

MATERIAL _____

APPLICATION METHOD _____

THICKNESS _____

GOV. VALVE TRIM _____

INLET STRAINER _____ MESH SIZE _____

COUPLING SPACER/HUBS _____

COUPLING DIAPHRAGMS (DISKS) _____

STEAM CONTROL

SPEED CHANGER ○ MANUAL ○ PNEUM. ○ ELECT (5.4.2.3)

MFR. _____ MODEL _____

CONTROLLED VARIABLE	OPERATING RANGE	CONTROL SIGNAL
SPEED	___ TO ___ RPM	___ TO ___ PSIG/mA
	___ TO ___ RPM	___ TO ___ PSIG/mA

CONNECTIONS (4.4.1)

	SIZE	RAT'G	FAC'G	POS.	○ MATING PARTS FURNISHED (4.4.6.5)
INLET					
EXHAUST					
DRAINS					

COUPLINGS (5.2) ○ SEE SEPARATE DATA SHEET

LOCATION	TURBINE	DRIVEN
○ MAKE		
☒ MODEL		
☐ RATING (HP/100RPM)		
○ LUBRICATION		
☒ LIMITED END FLOAT		
☐ SPACER LENGTH		
☒ SERVICE FACTOR		

○ TURBINE VENDOR MOUNTS HALF COUPLING

DYN. BALANCE CL (5.2.8)

○ AGMA CLASS 8 ○ OTHER _____

TURBINE SHAFT ☐ TAPER ☐ STRA'T ☐ HYDRAULIC FIT HUB

○ MOUNTING PLATES

TYPE: (5.3.1.1) ○ BASEPLATE ○ SOLEPLATE

FURN. BY: ○ TURBINE VENDOR

○ DRIVEN EQUIPMENT VENDOR ○ OTHER _____

EQUIPMENT TO BE MOUNTED: (5.3.2.1)

○ TURBINE ○ GENERATOR ○ GEAR

○ PUMP ○ OTHER _____

○ UNGROUTED BASEPLATE (5.3.2.4)

○ SUITABLE FOR COLUMN MOUNTING

○ TURBINE VENDOR FURNISHES SUBPLATES

○ ACCESSORY EQUIPMENT BY VENDOR

○ REMOTE TRIP ○ SOLENOID

☐ VACUUM BREAKER (5.4.2.9)

○ AUTOMATIC STEAM SEALING SYSTEM (4.7.5)

GLAND VACUUM DEVICE WITH: (4.7.4)

○ WATER EDUCTOR ○ STEAM EJECTOR

○ SENTINEL WARNING VALVE (5.4.5.2)

☐ INSULATION, TYPE: _____

○ TACHOMETER (5.4.4.1), TYPE _____

☒ MFR. _____ ☒ MODEL _____

○ MOUNTED BY _____

○ THERMAL RELIEF VALVES (5.4.4.7.3)

○ SHUTOFF VALVES FOR SHUTDOWN SENSORS

○ LOCAL GAUGE BOARD WITH FOLLOWING PRESSURE GAUGES: (5.4.3.1)

○ THROTTLE STEAM ○ FIRST STAGE

○ NOZZLE RING ○ EXHAUST

○ LIQUID FILLED GAUGES (5.4.4.4)

○ INSTRUMENT PANEL (5.4.3.2.1)

○ BASEMOUNT

○ FREE STANDING

EXTERNAL LUBE OIL SYSTEM

☐ CIRCULATING (4.10.5) ☒ PRESSURE (4.10.6)

VENDOR FURNISH SYSTEM FOR: ○ TURBINE

○ OTHER _____

OIL SYSTEM TO BE: ○ CONSOLE TYPE

○ MOUNTED ON BASEPLATE

OIL SYSTEM TO INCLUDE FOLLOWING EQUIPMENT: (4.10.5)(4.10.7)

☒ STANDBY OIL PUMP: TYPE DRIVER _____

○ LOW OIL PRESS ALARM SWITCH

○ LOW OIL PRESS TRIP SWITCH

○ HEATER (4.10.8) ○ ELECTRIC ○ STEAM

○ OIL DRAIN SIGHT FLOW INDICATORS

☐ HAND OPERATED STANDBY PUMP

VIBRATION AND POSITION DETECTORS (5.4.6)

○ FURNISH PROVISIONS FOR MOUNTING NON-CONTACTING VIBRATION PROBES (4.9.32)

○ FURN. AXIAL POSITION PROBES ☒ NO. OF PROBES _____

☒ MFR. _____ ☒ MODEL _____

○ FURN. RADIAL PROBES ○ NO. OF PROBES PER BEARING _____

☒ MFR. _____ ☒ MODEL _____

FURNISH BEARING METAL TEMP SENSORS FOR:

○ RADIAL BEARINGS ○ THRUST BEARINGS

TURBINE VENDOR SUPPLIES AND CALIBRATES MONITORS FOR:

○ AXIAL AND RADIAL PROBES

○ BEARING TEMPERATURE SENSORS

○ SEE SEPARATE DATA SHEETS FOR DETAILS

GENERAL-PURPOSE STEAM TURBINE DATA SHEET U.S. CUSTOMARY UNITS

JOB NO. _____ ITEM NO. _____

REVISION NO. _____ DATE _____

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ENGINEERING REQUIREMENTS

- ○ SUPPLY ENGR. DATA FOR LATERAL/TORSIONAL ANALYSES (4.8.1.7)
- ○ CALCS AND/OR DATA FOR SEPARATION MARGIN (4.8.2.2)
- ○ TRAIN TORSIONAL VIBRATION ANALYSIS (4.8.3.5)
- ○ WEIGHT OF HALF KEYS (4.8.4.2)
- ○ RESIDUAL UNBALANCE CHECK (4.8.4.3)

REMARKS: _____

INSPECTION REQUIREMENTS

- ○ 100% ULTRASONIC INSPECTION AFTER ROUGH MACHINING (6.2.2.3.1)
- ○ USE INSPECTOR'S CHECK LIST
- CASTING SURFACE INSPECTION (6.2.2.1.1) ○ MSS SP-55 ○ OTHER _____
- ○ WELD INSPECTION (6.2.2.1.2)
- ○ SPECIAL NDT INSPECTION (6.2.1.3)

COMPONENT	MAG. PART.	DYE PENET.	RADIO-GRAPHIC	ULTRA-SONIC	OBSE-RVED	WITN-
T&T VALVE					○	○
STM CHEST					○	○
CASING					○	○
PIPING					○	○
ROTOR					○	○
					○	○
					○	○

REMARKS: _____

○ PREPARATION FOR SHIPMENT

TURBINE AUX. EQUIPMENT AND SPARE ROTOR PREPARED FOR (6.4.1):

○ DOMESTIC SHIPMENT ○ EXPORT SHIPMENT

REMARKS: _____

TESTS (6.3)	REQ'D.	WITN.	OBSVD. (6.1.5)
HYDROSTATIC (6.3.2.1)	●	○	○
MECH. RUN (6.3.3)	●	○	○
	○	○	○
PERFORMANCE (6.3.4.1)	○	○	○
COMPLETE UNIT (6.3.4.2)	○	○	○
GEAR (6.3.4.3)	○	○	○
SOUND LEVEL (6.3.4.4)	○	○	○
AUX. EQUIPMENT (6.3.4.5)	○	○	○
_____	○	○	○
_____	○	○	○

REMARKS: _____

WEIGHTS

- ☐ TURBINE _____ LB
- ☐ ROTOR _____ LB
- ☐ TURBINE UPPER HALF CASING _____ LB
- ☐ MAX MAINTENANCE (IDENTIFY) _____ LB
- ☐ T & T VALVE _____ LB
- ☐ BASEPLATE _____ LB
- ☐ MISC. _____ LB
- ☐ TOTAL SHIPPING WEIGHT _____ LB

REMARKS: _____