

API 610 10TH EDITION (ISO 13709)
CENTRIFUGAL PUMP PROCESS DATA SHEET
(SI UNITS)

MRI No. **MR95-G-8-1**
Inquiry No. **MR95-G-8-1**
By: **C.Yu**

Item No. **950-3215**
Date: **31-Jan-08**

Rev.

1 APPLICABLE TO: PROPOSAL PURCHASE AS-BUILT
2 FOR **Suncor Energy** UNIT **Steam Generation**
3 SITE **Firebag Stage 5, Fort McMurray, Alberta** SERVICE **LP BFW Pump**

4 NOTES: INFORMATION BELOW TO BE COMPLETED: BY PURCHASER BY MANUFACTURER BY MANUFACTURER OR PURCHASER
5 DATA SHEETS (S.I.U.) **Pump Information**

6	ITEM NO.(S) / DATA SHEET NO.(S)	ATTACHED	Manufacturer	Florensve, Desis, Italy
7	950-3215	<input checked="" type="radio"/>	Model	U20L
8	950M-3215	<input checked="" type="radio"/>	Size	6 U20L 25
9		<input type="radio"/>	No. of Stages	2
10		<input type="radio"/>	Serial No.'s	040093

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11 APPLICABLE STANDARDS: **Firebag Project standard FB-G-0010**

12 OPERATING CONDITIONS (S.I.1.1) (S.1.2) (S.1.3) (S.1.4)
13 CAPACITY, NORMAL **543** (m³/h) RATED **604** (m³/h)
14 OTHER _____
15 SUCTION PRESS. MAX. / RATED **143.4** / **20** (kPa)
16 DISCHARGE PRESSURE **3.743** (MPa)
17 DIFFERENTIAL PRESSURE **3.743** (MPa)
18 DRY HEAD **298.3** (m) NPSHA **5.96** (m)
19 PROCESS VARIATIONS (S.I.1.4)
20 STARTING CONDITIONS (S.I.1.4)
21 SERVICE: CONT. INTERMITTENT (STARTS / DAY) _____
22 PARALLEL OPERATION RECORD (S.I.1.13) HPG POWER **458** (kW)

LIQUID (S.I.1.1)
LIQUID TYPE OR NAME **Boiler Feed Water**
 HAZARDOUS FLAMMABLE (S.I.1.2)
PUMPING TEMP. (°C) _____
VAPOR PRESS. kPa (ABS.) _____
RELATIVE DENSITY (30°C) _____
VISCOSITY (mPa.s) _____
SPECIFIC HEAT, Cp **4.2 @ 80°C** (kJ/kg °C)
 CHLORIDE CONCENTRATION **3000** (ppm)
 SULFIDE CONCENTRATION (S.I.2.1.4) _____ (PPM) WET (S.I.2.1.1.2)
CORROSIVE / EROSION AGENT **TDS < 9000 (ppm)** (S.I.2.1.4)

MATERIALS		
WATER CLASS (S.I.2.1.1)	0-1	
MIN. DESIGN METAL TEMP. (S.I.2.1)	-25	(°C)
REDUCED HARDNESS MATERIALS RECD. (S.I.2.1.2)		
BARREL / CASE	A219WC6	IMPELLER A487CA3M8
CAGE / IMPELLER WEAR RINGS		A473-420
SHAFT	A276-316	
DIFFUSERS		

23 SITE DATA (S.I.1.2)
24 LOCATION (S.I.1.3)
25 INDOOR HEATED OUTDOOR UNHEATED
26 ELECTRICAL AREA CLASSIFICATION (S.I.1.24 / S.I.1.4) **UNCLASSIFIED**
27 CL. OR. Zone _____
28 WYPERIZATION RECD. TROPICALIZATION RECD. _____
29 SITE DATA (S.I.1.3)
30 ALTITUDE **582.4** (m) BAROMETRIC **94.4** kPa (ABS.)
31 RANGE OF AMBIENT TEMP. MIN. / MAX. **+3** / **+40** (°C)
32 RELATIVE HUMIDITY: MIN. / MAX. _____ (%)
33 UNUSUAL CONDITIONS: (S.I.1.3) DUST FUMES
34 OTHER _____
35 Refer to Site Conditions Data Sheet DS95-A-1-1 for more information.

PERFORMANCE @ 1.00 SG
PROPOSAL CURVE NO. **602DL25-65T-F** **1763** RPM
IMPELLER DIA. RATED **590** MAX. **650.0** MIN. **508.0** (mm)
IMPELLER TYPE **CLOSED**
RATED POWER **607.3** (kW) EFFICIENCY **72.3** (%)
MINIMUM CONTINUOUS FLOW: THRESHOLD _____ (m³/h) STABLE **300** (m³/h)
PREFERRED OPER. REGION **438** TO **750** (m³/h)
ALLOWABLE OPER. REGION **300** TO **750** (m³/h)
MAX HEAD @ RATED IMPELLER **142** (m)
MAX POWER @ RATED IMPELLER **745** (kW)
NPSHA AT RATED FLOW **4.3** (m) (S.I.1.13)
MAX. SUCTION SPECIFIC SPEED **8004** (S.I.1.1)
MAX. SOUND PRESS. LEVEL RECD. **48** (dBa) (S.I.1.15)
EST. MAX. SOUND PRESS. LEVEL **92.3** (dBa) (S.I.1.15)
EST. MAX. SOUND POWER LEVEL _____ (S.I.1.15)

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DRIVER TYPE
36 INDUCTION MOTOR STEAM TURBINE GEAR
37 OTHER _____
38 MOTOR DRIVER (S.I.1.17 & 1.4)
39 MANUFACTURER **TECO - Westinghouse**
40 **(1000 HP) 745.7** (kW) **1800** (RPM)
41 FRAME **4875** ENCLOSURE **WPs**
42 HORIZONTAL VERTICAL SERVICE FACTOR **1.15**
43 VOLTAGE / PH. / Hz. **4000** / **3** / **60**
44 TYPE **Squirrel Cage Induction**
45 MINIMUM STARTING VOLTAGE (S.I.2.2) _____
46 REGULATION **Class F** TEMP. RISE **Class B**
47 FULL LOAD AMPS _____
48 LOCKED ROTOR AMPS _____
49 STARTING METHOD **Across the line**
50 LUBE **See Note 2**
51 BEARINGS (TYPE / NUMBER):
52 RADIAL **split - sleeve**
53 THRUST **split - sleeve**
54 VERTICAL THRUST CAPACITY _____
55 LP _____ (m) DOWN _____ (m)
56 See Motor Data Sheet DS95-F-00015-1.

UTILITY CONDITIONS
ELECTRICITY: DRIVERS VOLTAGE **4100** PHASE **3** HERTZ **60**
HEATER VOLTAGE **520** PHASE **1** HERTZ **60**
SYSTEM VOLTAGE DIF. 80% OTHER _____ (S.I.1.5)
STEAM **N/A** MAX. PRESS. _____ MAX. TEMP. _____ MIN. PRESS. _____ MIN. TEMP. _____
DRAWING HEATER _____
COOLING TSD: (S.I.1.16) SOURCE **Plant Cooling Glycol System**
SUPPLY TEMP. **45** (°C) MAX. RETURN TEMP. _____ (°C)
NORMAL PRESS. **2400** (kPa) DESIGN PRESS. **3400 @ 80°C** (kPa)
MAX. RET. PRESS. _____ (kPa) MAX. ALLOW. O.P. **75** (kPa)
CHLORIDE CONCENTRATION _____ (mg/l)

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18	31-Jan-08	Re-issued For Purchase	CY	NS	CY	TP	SD
19	1-Jun-07	Issued For Purchase	GO	ES	CY	TP	SD
Rev.	DATE	REVISION	BY	CHK	ENGR.	APPR.	OTHER

DATA SHEET FOR **950-3215**



FOR: **Suncor Energy**
LOCATION: **Firebag Stage 5, Fort McMurray, Alberta**
SERVICE: **LP BFW Pump**
EQUIPMENT NO. **950-3215**

Project No. **03-00051A**
DOCUMENT NO. **DS95-A-03215-1**
REV. **1B**

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Scott C. Dulebohn



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