

10035892

EXXON MOBIL CANADA ENERGY STATIC EQUIPMENT INSPECTION REPORT

Item Inspected:	Group Inlet Separator
Location:	04-16-060-22 W5 <i>BIGSTONE</i>
ABSA #:	A3027949
CRN #:	M 6805.2
Serial #:	4292
SAP #:	<i>50130682</i>
Exxon#:	
Damage Code:	
Rivest Job #:	J01-2398

	PSV Shell Side	PSV Tube Side
PSV #:	<i>169</i>	
Service Date:	<i>SEPT/01</i>	
Set Press:	<i>4964 @ 2Pa.</i>	
Capacity:	<i>11060 SCFM.</i>	
Serial #:		
MAWP: (Shell)	720 PSIG	@ 120°F
(Tube)		@ °

Inspection requested by: Kerry Pohl Inspection date: September 5, 2001
 Inspection performed by: Evan McNeely Inspection interval: *6 yrs.*

Remedial Action

- no action required
- coating/lining repairs
- coating / lining
- repair weld - S.R.
- repair weld - no S.R.
- ground out
- replaced
- monitor

Access & Coverage

- poor cleaning
- adequately cleaned
- internal inspection
- partial int. inspection
- external inspection
- NDE inspection
- internal visual + NDE

Other

- see comments
- baffle / weir damage
- support ring damage
- flange corrosion
- burner misaligned
- bolting damage
- downcomer corrosion
- valve caps missing

Shell

- top
- bottom
- good condition
- external corrosion
- internal corrosion
- pitted - light
- pitted - severe
- scaled - light
- scaled - heavy
- blistered

Nozzles

- good condition
- internal corrosion
- cracked
- scaled
- plugged
- poor welding
- leaking

External Protection

- good condition
- fireproofing cracked
- insulation damaged
- paint deteriorated
- corrosion under insulation (CUI)

Welds

- good condition
- corroded
- cracked
- broken
- poor quality

Supports

- good condition
- distorted
- cracked
- broken
- poor installation
- bolts missing/loose

Heads top
 North

- good condition
- external corrosion
- internal corrosion
- pitted - light
- pitted - severe
- scaled - light
- scaled - heavy
- blistered

Heads bottom
 South

- good condition
- external corrosion
- internal corrosion
- pitted - light
- pitted - severe
- scaled - light
- scaled - heavy
- blistered

Internal coating
Protection lining

- N/A
- good condition
 - blistered - light
 - blistered - severe
 - disbanded
 - chipped
 - holidays
 - mechanical damage
 - missing

Anodes

- N/A
- good condition
 - dirty
 - consumed 20%
 - consumed 50%
 - consumed 80% +
 - missing

STATIC EQUIPMENT INSPECTION REPORT - Continued

Demister Screen

- good condition
- dirty
- dislodged
- broken
- missing
- tie-downs missing

Heating Coil

- N/A
- good condition
 - corrosion
 - cracked
 - scaled
 - worn
 - loose
 - poor installation

Manways

- good condition
- coating damage
- internal corrosion
- mechanical damage

Trays

- N/A
- good condition
 - collapsed
 - distorted (bent)
 - loose
 - missing
 - wear
 - corrosion
 - poor installation

Firetubes

- N/A
- good condition
 - cracked
 - corrosion
 - scaled
 - heat impinged
 - coated
 - wear

Tube Bundle

- N/A
- good condition
 - pitted - light
 - pitted - severe
 - scaled
 - plugged
 - damaged
 - wear
 - erosion

Tubesheet

- N/A
- good condition
 - general corrosion
 - pitted - light
 - pitted - severe
 - erosion
 - damaged

Channel Head

- N/A
- good condition
 - general corrosion
 - pitted - light
 - pitted - severe
 - erosion
 - scaled
 - coated

Refractory

- N/A
- good condition
 - cracked (minor)
 - spalled
 - missing
 - damaged
 - badly cracked

Tube

- N/A
- good condition
 - external corrosion
 - internal corrosion
 - thinning
 - bulged
 - heat impinged
 - distorted
 - erosion

Drum

- N/A
- mud
 - steam
 - good condition
 - damaged internals
 - internal corrosion
 - cracking
 - scaling

Floor

- N/A
- external corrosion
 - internal corrosion
 - pitted - light
 - pitted - severe
 - edge settlement
 - weld cracking
 - sludge
 - previous repairs

COMMENTS:
EXTERNAL:

1. Nameplate Info: Year Built – 1995
2. Horizontal vessel located inside of building.
3. Saddles are bolted to floor deck of transport skid. Skid is grounded in 2 locations. Grounding connections are attached and secure.
4. External corrosion protection (paint) is in good condition.
5. Saddles are secure.
6. No distortions or buckling of the shell noted.
7. No distortion of nozzles or attachments noted.

COMMENTS (continued):

INTERNAL:

1. No corrosion or internal pitting noted.
2. No distortion or blistering noted.
3. Sand caked to inside of vessel in the 6:00 position between the boot and the weir. The sand was scrapped loose and areas cleared for inspection. No corrosion or pitting noted in areas cleared.
4. There are 2 weirs located in this vessel. The weirs are straight and the attachment welds are in good condition.
5. The interior of the boot is in good condition with no internal corrosion or pitting noted.
6. The deflector plate at the South end is in good condition. The welds are in good condition.
7. The demister screen is in good condition and clear. The tie-downs are secure. The welds for the screen frame are in good condition.
8. The nozzles are clear and in good condition. No internal corrosion or pitting noted.
9. The North and South heads were inspected internally with no concerns noted.

RECOMMENDATIONS:

1. The sand was cleared out of the inside of this vessel prior to putting back in service.
2. This vessel is considered fit for continued service.