

INSPECTION REPORT

Inspection Date: 5/4/2015

Equip/Line No.: C-208

Plant: Dicamba

PLANT: Dicamba Date: 5/4/2015

EQUIP/LINE #: C-208

DESCRIPTION: MOLTEN BANVEL DECANTER

AREA: 200 Cad #: _____

REASON: _____

INSPECTORS: Oscar Report Entered By: Jenny Stark
Simmons
Zachry

Inspection Classification: Routine Authenticator: Todd Passmore

Recommendations

Notification 935062100 was created for repairing and repainting. Recommend repairing and repainting corroded supports and platform, repairing leaking piping, and replacing short anchor bolts at next opportunity.

Signed by: Todd Passmore

EXTENT OF INSPECTION

Inspection Types Performed
VT

External: ☒ Internal: ☐ On Stream UT: ☐

Special Inspection Techniques

Visual, Spark Test/ RBI has been overridden due to glass lined vessel

INSPECTION INTERVALS (months) and Next Date

	RBI Intervals	Calculated UT Interval	Recommended Intervals	Last Inspection	Next Inspection	Next Override Inspection
Internal Inspection	120	N/A	60	1/28/2015	1/28/2020	
External Visual Inspection:	60	N/A	60	5/4/2015	5/4/2020	
UT Thickness Inspection:	120	N/A	0			

CIRCUIT TML INFORMATION

Worst TML Corrosion Rate: _____

Minimum Measured TML: _____

Calc Remaining Corrosion Life: **N/A**

Work Release #:

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SPECIFICATION SHEET

IDENTIFICATION

Equip/LineNo.: **C-208** Desc.: **MOLTEN BANVEL DECANter**
Plant: **Dicamba** Area: **200**
Nat'l Bd. No.: Serial No.: **32963**
CAD Number: Mfg. Date: **1995**
P & ID: **FE-226** Regulatory Class:
SAP Functional **BMNT-DIC2C-C208**
Location:
Active: ☐ Bad Actor: ☐ Scheduled for
Next Turnaround: ☐
Type: **DECANter**

Thickness Measurement Location Defaults:

Date Placed in Service (For Initial Corrosion Rate Calculations)

MAT: **0** Nominal Thickness: **0** Diameter: **0**

(*Note: Process Data is for Reference Only)

PROCESS

Shell: **WET MOLTEN DICAMBA**
OPERATING CONDITIONS

Tube/Piping:
DESIGN CONDITIONS

MAWT: Tube
MAWT: Shell **500 F**
MAWP: Tube
MAWP: Shell **100 PSIG**

MATERIALS OF CONSTRUCTION

Shell: **SA-285-B** Piping:
Heads: **SA-285-B** Piping Seam Type:
Channel: Trays:
Tubesheet: Int Lining: **GLASS**
Tubes Coil: Int Cladding:
Tube Gauge: Ext Coating: **Y**
No. of Tubes: Insulation: **Y**
Nozzles: **SA-181 CL-60** Tracing:
Other:

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REVIEW / REPAIR RECOMMENDATIONS

5/4/2015

Todd Passmore

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INSPECTOR COMMENTS

An external inspection was performed and detrimental conditions were found. They are as follows: Scaling corrosion on supports at ground level. Ladder supports are broken and/or severely corroded at ground level. Bottom platform is severely corroded due to leaking piping. Bolting anchoring vessel to structure are too short.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

1/28/2015

INSPECTOR COMMENTS

INTERNAL INSP.

Glass and Steel Inspections Performed visual, 5000 DC volt spark test, glass and steel thickness inspection on the inner glass lined steel shell. See Internal Glass and Steel Inspection for notes mapping inner glass lined steel shell. Good "fire polish" Glass Integrity. Above glass thickness mapping (MILS) Satisfactory. Light product soil build up and Lower Readings detected on side wall shell.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

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Date Repair(s) Completed:

by

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Plant: Dicamba

1/24/2015

INSPECTOR COMMENTS

Initial Inspection

Small crack located on the liner of manhole cover.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

8/10/2011

Todd Passmore

Maintain Inspection PM's

INSPECTOR COMMENTS

INTERNAL INSP.

Visual inspection- Fire polish is in good condition, no repairs found. Spark test finds vessel in good condition. Vessel is good to put back in service.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

10/5/2009

Matt Miller

Recommend repairing and repainting corroded supports and platform, repairing leaking piping, and replacing short anchor bolts at next opportunity.

INSPECTOR COMMENTS

EXTERNAL INSP.

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REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

6/29/2008

Todd Passmore

Maintain Inspection PM's

INSPECTOR COMMENTS

INTERNAL INSP.

No Issues, See Attached Shutdown Book

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

6/29/2005

Todd Passmore

Maintain Inspection PM

INSPECTOR COMMENTS

INTERNAL INSP.

Spark test performed by DeDietrich with no defective parts, fire polish is in good condition

REVIEWER COMMENTS

passmot 9/13/2005 7:41:

Internal Visual and Spark Test performed every 2 years, per Engineering and Operations Request

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Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

8/19/2003

Elliott Services

Maintain Recommended Inspection frequency

INSPECTOR COMMENTS

INTERNAL INSP.

DeDietrich performed a spark test. Spark test finds decanter in good condition. Fire polish looks good. No old repairs found

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

4/15/2002

ELLIOTT SERVICES

REPLACE 4" NOZZLE FLANGE ASSOCIATED WITH LT-C-208, HEAVY CORROSION.

INSPECTOR COMMENTS

EXTERNAL INSP.

EXTERNAL VISUAL INSPECTION REVEALED HEAVY CORROSION INVOLVING 4" SPOOL PIECE AND FLANGES ASSOCIATED WITH LT-C-208, LOCATED ON THE NW SIDE OF THE TOP HEAD. MINOR CORROSION AND SCALE NOTICED ON ASSOCIATED 2" AND 4" PIPING INVOLVING N-3. MINOR CORROSION ON THE REST OF THE NOZZLE FLANGES OF THE TOP HEAD. MILD CORROSION NOTICED ON SUPPORT LEGS. THE REST OF THE VESSEL IS IN ACCEPTABLE CONDITION. INSPECTION LIMITED DUE TO INSULATION. **NO UT DATA DUE TO GLASS LINING.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

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Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

6/29/2000

Maintain Maximum Inspection Intervals

INSPECTOR COMMENTS

INTERNAL INSP.

Visual inspection from the manway June 29 by P. J. McKenna with BASF Maintenance. No internal or external issues were observed. The glass liner was spark tested by Jim Engle of DeDietrich on June 26, detailed report available separately. No defects were found. Last inspected in 1999, next inspection in 2001.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

6/9/1999

MAINTAIN MAXIMUM INSPECTION INTERVALS

INSPECTOR COMMENTS

INTERNAL INSP.

Visual inspection from the manway. Internal spark test conducted June 9 by J. Engle with DeDietrich, report available in the equipment file. No defects were found and the fire-polish was in good condition. Exterior inspection not performed due to insulation. Next inspection due in 2000. Hydrochloric acid supply line was replaced.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

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Work Release No.:

Date Repair(s) Completed:

by

7/2/1998

INSPECTOR COMMENTS

INTERNAL INSP.

Replaced July 2, 1998. Spark tested July 7 by J. Engle with DeDietrich, no defects found. Complete report available separately. Next inspection due 1999. Old C-208 checked ok except for manway corrosion, possible candidate for re-glass?

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

7/14/1997

MAINTAIN MAXIMUM INSPECTION INTERVALS

INSPECTOR COMMENTS

INTERNAL INSP.

SPARK TEST FOUND VESSEL TO BE IN GOOD CONDITION. FIRE POLISH IS IN VERY GOOD CONDITION. NO REPAIRS FOUND.

REVIEWER COMMENTS

WORK RELEASE

Repair(s) Recommended: No

Repair Recommendations:

Work Release No.:

Date Repair(s) Completed:

by

7/15/1996

INSPECTOR COMMENTS

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INTERNAL INSP.

SPARK TEST GOOD. NO PLUGS FOUND.- JIM ENGLE.

REVIEWER COMMENTS

WORK RELEASE

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6/29/2008

INTERNAL INSP.

No Issues, See Attached Shutdown Book

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