

Exam, Inc.

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Summary Report for TK-100

Visual (External) No comments noted.

(Internal) Not required in accordance with API 510 paragraph 6.4.b.

Thickness The manufacturers Form U-1 was provided with all thickness readings being above the stated nominal.

Recommendations None.

Conclusion Inspect this vessel at the next Dow scheduled interval.

Report Submitted by: *Daniel P. Hinkle* Date: June 1, 2007
Daniel P. Hinkle
API 510 No. 2228
ASNT Level III NO. 5696

Report Reviewed by: *Shelley Spore* Date: 6/7/07
Date: _____

WD 27227360
~~ET 27227361~~

Client Dow Chemical Location Dalton, GA.

Vessel Number TK-100 System HCF 142 B Date 05/24/07

Manufacturer G. A. Mosites CO. National Board No. 1006 P&ID No. N/A

Vessel Type Horizontal Design Pressure 155 PSI Design Temperature 250 F.

Head Type Elliptical Relief Valve Set Pressure 150 PSI Date Tested 4-99

Nominal Head Thickness 0.6875" Minimum Nominal Shell Thickness 0.750"

Head Corrosion Allowance 0.0625" Shell Corrosion Allowance 0.625"

Date Vessel Placed In Service 1989 Name Plate Located Yes UI Form Located Yes

Foundation and Vessel Support: Were any of the following conditions present?

Cracking: No Spalling: No Grout Damage: No Damage to Anchor Bolts: No

Missing Ground Strap: No Damaged Saddle or Legs: No Damaged Vessel Skirt: N/A

Describe problem: None

Paint: Is the paint?

Lifting: No

Damaged: No

Blistering: No

Describe problem: None.

Insulation: Were any of the following conditions observed?

Missing insulation: N/A Bulging insulation: N/A Sealing deterioration: N/A

Missing or broken bands: N/A Discoloration: N/A Damaged insulation: N/A

Describe problem: None.

Leaks: Where is there evidence of leakage?

Flanges or Manways: No Valves: No Gauges: No

Describe problem: None

Corrosion: Where is corrosion evident?

Shell: No Heads: No Nozzles: No Flanges: No Manways: No

Skirts or Saddles: No Ladders: No Platforms: No Under Insulation: N/A

Describe problem: None.

Bolting: Were any of the following conditions observed?

Missing bolts: No Missing Nuts: No Missing washers: No

Unsatisfactory nut engagement: No Describe problem: None

Attachments and Appurtenances: Were any of the following damaged?

Ladders: No Cages: No Platforms: No Handrails: No Gauges: No

Describe problem: None

Shell and Head: Were any of the following conditions evident?

Bulging: No Distortion: No Dents: No Non Code Repairs: No

Non Code Attachments: No Unacceptable Welds: No

Describe problem: None

Nozzle Reinforcing Pads: Which of the following conditions apply to weep holes?

Absent: N/A Present: N/A Plugged: N/A Open: N/A

INTERNAL INSPECTION SECTION: Was an internal inspection performed? No

Shell, Heads and Nozzles: Were any of the following conditions evident?

Pitting: N/A Erosion: N/A General Attack: N/A Cracking: N/A Gouges: N/A

Describe problem: None

Coatings, Linings or Surfacing: Were any of the following unacceptable?

Rubber: N/A Glass: N/A FRP: N/A Refractory: N/A Weld Overlay: N/A

Explosion Bonding: N/A Roll Bonding: N/A Strip Cladding: N/A Other: N/A

Holiday Test: N/A Spark Test: N/A Hardness Test: N/A Hardness Value: N/A

Describe problem: None

Internal Components: Were any of the following damaged or corroded?

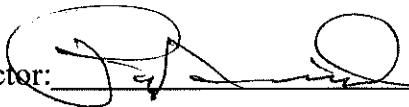
Trays: N/A Tray Supports: N/A Baffles: N/A Bubble Caps: N/A Risers: N/A

Downcomers: N/A Strongbacks: N/A Bolting: N/A Dip Pipes: N/A Coil: N/A

Coil Supports: N/A Agitator Shaft: N/A Agitator Blade: N/A Agitator Flanges: N/A

Agitator Seal: N/A Seal Pans: N/A Other Internal Components or Parts: No

Describe problem: None

Signature of Inspector:  Reggie Wrinkle Certification Level: II

Ultrasonic Thickness Report

Client: Dow Chemical
Location: Dalton, GA.
System: HCF 142B
Vessel: TK 100
Date: 05/24/07

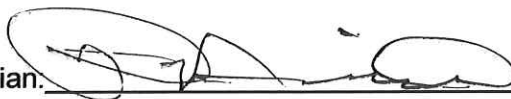
Procedure:
Calibration Std.
UT Instrument:
Probe ID:
Technician:

UT-1 Revision 0
CS-01
T-Scope DL
WO 3428
R Wrinkle

	North	East	South	West	Average
East Head	0.890	0.884	0.848	0.838	0.865
Shell	0.843	0.826	0.809	0.822	0.825
Shell	0.810	0.815	0.825	0.830	0.820
Shell	0.824	0.816	0.813	0.810	0.816
Shell	0.813	0.802	0.817	0.801	0.808
West Head	0.864	0.864	0.859	0.869	0.864

Note: The low reading is in red and the high is in green.

Signature of Technician. _____



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