


**DNV**
**DET NORSKE VERITAS**
**SURVEY REPORT**

<b>P.O. Number:</b> 014660-00	<b>Date:</b> 30 July, 2003	
<b>Main Vendor:</b> Valve Technologies	<b>Location:</b> San Antonio, TX	
<b>Sub Vendor:</b> SW Research Institute	<b>Vendor Contact:</b> Robert Hart	
<b>Sub Vendor Ref:</b> 9-945	<b>Vendor Phone:</b> 210-522-2350	
<b>Req. No:</b> N/A	<b>Quantity:</b> 1	<b>Week No:</b> 32
<b>Part No:</b> N/A	<b>Serial No:</b> N/A	
<b>EQUIPMENT DESCRIPTION:</b>		
8" 1500# Class, Floating Ball Valve		

**Survey Comments:**
**Purpose of survey:** Witness Fire Test

**Reference & Acceptance Document:** API Standard 607

**FAX #:** Yes

**Date:** 10 August, 2003

**Signature:** G. Rektorik

**Distribution:**
**Attn:**
**FAX #:**
**Original to Client:** Valve Technologies

Tracey Hammick

713-860-0454

**Copy to File:** 410-1-5889

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**Scope of Activity:**

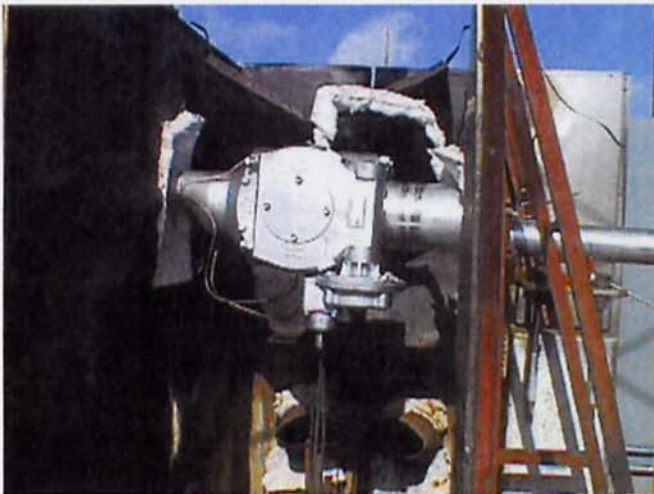
A. Attending surveyor witnessed a fire test of the referenced Ball Valve with the following results:

***Fire Test***

- Test setup was per figure 2 of API 607.
- Test valve was filled with water and tested in the closed position, valve stem and bore were in the horizontal position.
- Valve was pressurized to 2779 minimum (75% of the cold working pressure) prior to the start of the test. No visible leaks were noted.
- Valve was enveloped in flame throughout the test. The flame temperature reached 1400°F prior to lapse of 2 minutes. Temperature readings of thermocouples were maintained between 1400-1800°F for 30 minutes.
- **No measurable through leakage was noted during burn.**
- After 30 minute burn test, valve was sprayed with water to achieve a rapid cool down to below 212°F within 10 minutes. (Note during this cool down the gear box housing cracked. This did not affect the operation of the valve)

***Operation Test***

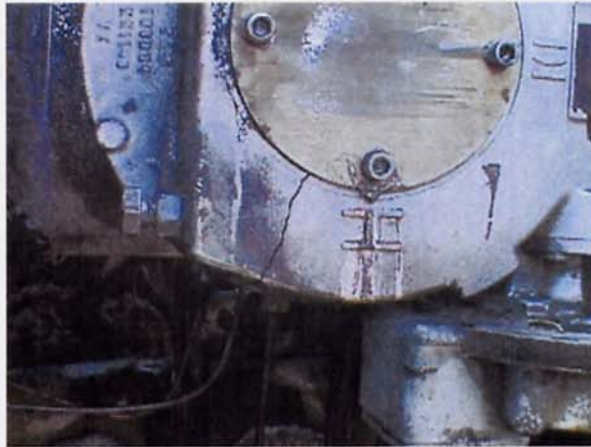
- After cool down the valve was operated open and then closed under test pressure.
- The downstream drain valve was opened and the system was allowed to stabilize for 5 minutes.
- Through leakage and packing leakage was collected for the next 5 minutes.
- **Leakage collected: 5 ml. – at packing; 12 ml. – through leakage**



**Test Setup**



**Valve After Burn and Cool Down**



**Crack in Gear Box Housing**

**Note:** Official results of these tests will be generated by SW Research Institute.

**Signature: Gary Rektorik**  
**Senior Surveyor**

