

## UTC IMP Verification Form

**Inspector / Date:** Al Jones / May 17, 2011

**Inspection Dates:** May 2-5, 2011

**Operator Inspected:** ConocoPhillips Pipe Line Company

**OPID:** 31684

**Region:** Western

**Unit Inspected:** Yellowstone Pipe Line

**Unit ID:** 515

**Unit Type:** Refined Products

**Unit Address:** 6317 East Sharp Ave.; Spokane, WA. 99211

**Record Location:** 600 Dairy Ashford Road; Houston, TX. 77252-2197

### High Consequence Areas

#### High Consequence areas in District

<b>Id</b>	<b>High Consequence area</b>	<b>Location</b>	<b>Reason</b>	<b>Mileage</b>	<b>HCA Verified</b>
1	DWA	Yellowstone Pipe Line (YPL): From WA/ID State Line to Spokane Airport	10" & 8" Lines	25	Yes
2	DWA HPA	Hillyard Lateral: From North Spokane to Hillyard	8" Line	1.5	Yes
3	NW	Spokane River crossings at: Trent Street and Pine St.	8" Line	0.07 & 0.05	Yes
4	EC	East Low Canal & Crab Creek	8" Line	0.1	Yes (Note #1)
5	OPA	Fairchild Air Force Base	8" Line	3	Yes
6	Non HCA	Fairchild Air Force Base to Moses Lake	6" Line	80	NA

Definitions:

- DW = Drinking water USA
- DWA = Drinking Water Aquifer
- HPA = Highly Populated Area (>50,000 population)
- NW = Navigable Waterway
- EC = Ecological USA
- OPA = Other Populated Area (<50,000 population)

Note #1

The pipeline segment between the Low Canal and Crab Creek (about 530 feet) has a new upstream block valve and downstream check valve. The total USA is approximately, 0.1 square mile.

**New HCA's**

High Consequence Area	Location	Reason	Mileage	Assessment Date
HPA	40 line segments at various locations	IMP	Varies	2000 - 2010
OPA	41 line segments at various locations	"	"	" "
NW	27 line segments at various locations	"	"	" "
DW	39 line segments at various locations	"	"	" "
DWA	36 line segments at various locations	"	"	" "

The Yellowstone Pipeline analysis was buffered by 30 meters to account for any inaccuracies in the pipeline centerline location for the above locations and categories identified:

**Assessments**

**ILI**

HCA ID	Tool(s), or assessment method(s)	Assessment review results	Prior Assessment date	Assessment date	Next Assessment date
		See ILI summary below...			

III summary from various assessments tools for the Yellowstone Pipeline segments in Washington:

- I. From the WA/Idaho state line to Parkwater Terminal (Spokane Valley)  
The 10-inch diameter line is 15 miles in length with a 34 year seam suitability interval based on 2009 data.
  - 2003 Baseline Hydro Assessment
  - 2008 Caliper & MFL
  - 2009 UT
  
- II. From the Parkwater Terminal to North Spokane Station  
The 10-inch diameter line built in 1989 is 4.5 miles in length.
  - 2009 Caliper & MFL (Magpie at T.D. Williamson)
  
- III. From the North Spokane Station to Hillyard Station has no seam suitability interval because the line is ERW with less than 30 percent SMYS.  
The 8-inch diameter line is 1.82 miles in length.
  - 2007 Caliper & MFL
  - 2008 Caliper & MFL (Magpie at T.D. Williamson)
  
- IV. From the Parkwater Terminal to Fairchild AFB has no seam suitability interval because the line is ERW with less than 30 percent SMYS.  
The 8-inch diameter line is 24 miles in length.
  - 2000 Baseline Hydro Assessment
  - 2008 Caliper & MFL (Magpie at T.D. Williamson)2010 Caliper & MFL
  
- IV. From the Fairchild to Moses Lake  
The 6-inch diameter line is 85 miles in length with a 22 year seam suitability interval based on 2010 data.
  - 2000 Baseline Hydro Assessment
  - 2005 Caliper & MFL
  - 2010 Caliper & MFL

Do assessments address unit threats?	Yes, except the axial scrape (with metal loss) found on the Fairchild AFB to Moses Lake, about 3 miles east of Odessa, WA.
Earth Movement threat addressed if applicable?	Soil subsidence has not been an issue for the YPL, but will continue to monitor ROW.

HCA ID	Immediate repairs	One year condition (gas) 180 Day condition(liquid)	Monitored Condition (gas) Other condition (liquid)
	None for HCA	None for HCA	

Were anomalies evaluated in timely manner?	Yes
Were repairs appropriate?	Yes

### Repair Summary

HCA ID	Cutouts	Leak clamp	clocksprings	sleeves	grinding	None	other
None							

**Defect Type**

HCA ID	Third Party damage	corrosion	Outside force	Manufacturing defects	Construction defects	SCC	Other
None							

Amount of low frequency ERW pipe	
How is ERW pipe assessed	ILI tool
When was ERW pipe assessed	2009 & 2010

Two anomalies were discovered in Non HCA's including:

1. On the 6-inch diameter line from Fairchild AFB to Moses Lake the MFL tool evaluation was completed on June 2, 2010. Three dents (4.8%) were discovered approximately 26 miles west of Spokane and upstream of the Odessa block valve. The dents were located at the 8:38 clock position on the pipe and repaired within 60-days of discovery. About 90 linear feet of pipe (API 5L 52 ksi, 0.156" wt) was cut-out and replaced with a heavier wall pipe (API 5L 52 ksi, 0.219" wt). The dents were discovered on July 13, 2010, evaluated August 28, 2010 as multiple dents with gouge in the pipe wall, the pipeline was de-rated on August 30, 2010 to 80% of historic pressure (two months prior) to 345 psig at the Fairchild AFB or 620 psig at Moses Lake Terminal. On August 31, 2010 the pressure was revised to 430 psig at Fairchild AFB (80% of Historic) or 775 psig at Moses Lake (80% of historic). The pipeline MOP at the Spokane Discharge is 1,115 psig and at Moses Lake is 1,420 psig. The repair was made on August 31, 2010.
2. On March 10, 2010 an anomaly was evaluated at the state line (MP 85) for a dent of less than 2%. A Muller fitting was placed on the 10-inch diameter line.