

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Division of Spill Prevention and Response**  
**Prevention and Emergency Response Program**

**SITUATION REPORT**

**INCIDENT NAME:** Pump Station 1 Booster Pump Piping Incident    **SITREP #:** 13

**SPILL NUMBER:** 11399900801

**LEDGER CODE:** 14307760

**TIME/DATE OF SPILL:** Alyeska Pipeline Service Company (APSC) employees discovered a spill of crude oil inside the booster pump building at Trans-Alaska Pipeline System (TAPS) Pump Station 1 at 8:16 AM on January 8, 2011. APSC reported the spill to ADEC at 8:39 AM on January 8, 2011. APSC cut the flow of oil to the TAPS line at approximately 8:50 AM, January 8, 2011.

**TIME/DATE OF SITUATION REPORT:** 4:00 PM on January 20, 2011

**TIME/DATE OF THE NEXT REPORT:** 4:00 PM on January 21, 2011

**TYPE/AMOUNT OF PRODUCT SPILLED:** Crude oil appears to have been released from part of the booster pumps' discharge piping located either in the wall of the booster pump building or in a concrete-encapsulated underground section outside the building. Oil seeped into the building where a pipe passed through the basement wall. No oil has been observed outside the booster pump building.

The volume of oil released into the building and recovered prior to the January 11 restart is estimated at 1,776 gallons (42.3 barrels). The volume of oil recovered from the building since the January 11 restart is approximately 11,550 gallons (275 barrels). No additional oil has been observed leaking from the pipeline.

**LOCATION:** TAPS Pump Station 1, Prudhoe Bay. Pump Station 1 is the point at which all oil from the North Slope oil fields enters the TAPS.

**CAUSE OF SPILL:** Investigation is ongoing to determine the cause of the release and the precise location of its source.

**RESPONSIBLE PARTY (RP):** Alyeska Pipeline Service Company (APSC)

**RESPONSE ACTION:** The Trans Alaska Pipeline System resumed operations at 10:18 AM on January 17. Oil continues to move smoothly through the pipeline. Alyeska's incident management team remains in place until pipeline temperature profile stabilizes and field personnel return from the field.

Alyeska's repair and field crews continue with the following tasks: installing redundancy piping in the booster pump building at Pump Station 1, implementing precautionary cold restart measures, monitoring TAPS, increasing the line oil temperature with mechanical procedures, and implementing contingency plans and procedures for uninterrupted operations.

Preliminary cleanup work was completed in the basement of the booster pump building to allow a preliminary pipeline investigation team access to the leaking pipe. The investigation team will access the pipe through a flange opening and perform non-destructive tests for causal factors. The team consists of DNV Inc., Baker Petrolite, APSC engineers, and an ADEC monitor.

Overflights of the pipeline using forward looking infrared (FLIR) imaging equipment are continuing on a nightly basis.

Field monitors have not observed oil in any of the three monitoring holes, three groundwater drainfield sumps, or during periodic visual checks of the pad surface and perimeter.

**SOURCE CONTROL:** The TAPS line was shut down shortly after the spill was discovered. A containment tank was constructed and placed in the booster pump building basement to capture leaking oil. Workers placed additional spill containment equipment to isolate and drain the compromised discharge piping after the TAPS line was shut down for the installation of the bypass tie-in. With the completion of the bypass line, oil flow has been rerouted around the leak location.

**RESOURCES AFFECTED:** To date, no oil has been observed outside the booster pump building at Pump Station 1. The pump station is surrounded by tundra, marshland and ponds, but due to the location of the booster pump building on the interior of the station's gravel pad, there appears to be no immediate threat to sensitive habitat or wildlife.

**FUTURE PLANS AND RECOMMENDATIONS:** The project manager assigned by ADEC will continue to manage the State's response and follow-up to this incident until all necessary oversight and investigation are completed. Pollution monitoring at Pump Station 1 is ongoing. Plans for additional assessment around the booster pump building will be developed.

**WEATHER:** Forecasts for several locations on the TAPS line for today through tomorrow (temperatures in ° F):

**Prudhoe Bay** – Clear, -20 to -40° F, southwest winds 12 mph, wind chill to -59°F.

**Fairbanks** – Clear, -22 to -37°F, calm conditions.

**Glennallen** – Cloudy, -22°F, calm conditions.

**Valdez** – Snow, 25°F to 15°F, variable winds up to 10 mph.

**UNIFIED COMMAND AND PERSONNEL:**

Incident Commander: John Baldrige, APSC  
F.O.S.C.: Matt Carr, EPA  
S.O.S.C.: Tom DeRuyter, ADEC  
ADEC Field Monitor: John Ebel

**FOR ADDITIONAL INFORMATION CONTACT:** Tom DeRuyter, ADEC at (907) 451-2145

Photographs and other incident information are available for viewing at:

[http://dec.alaska.gov/spar/perp/response/sum\\_fy11/110108301/110108301\\_index.htm](http://dec.alaska.gov/spar/perp/response/sum_fy11/110108301/110108301_index.htm)

**AGENCY/STAKEHOLDER NOTIFICATION LIST**

This sitrep has been distributed to the following agencies and stakeholders. The situation report was also distributed to the various agency staff listed on the standard distribution list. The receiving agencies listed in the standard distribution list includes: Governor's office, Senator Begich's office, ADF&G, ADNR, SECC, EPA, DOI, NMFS, and USFWS.

AGENCY/STAKEHOLDER	NAME	SENT VIA	ADDITIONAL INFO	TELEPHONE	FAX
ADNR	Melissa Head Justin Selvik Mike Thompson Alison Iversen	Fax email email email		451-2732	451-2751
ADF&G (Habitat)	Al Ott/Jack Winters Lee McKinley	Fax email		459-7285 or 459-7279	459-7303
AOGCC	Jody Colombie	email			
EPA	Matt Carr/Robert Whittier	Fax		271-5083 or 271-3247	271-6340
DOT/PHMSA	Tom Johnson Dennis Hinnah	email			
Attorney General Office	Cam Leonard/ Steve Mulder	Fax		451-2811/451-2914	451-2985/ 278-7022

AGENCY/STAKEHOLDER	NAME	SENT VIA	ADDITIONAL INFO	TELEPHONE	FAX
Governor's Office (Fairbanks)	Parnell/Treadwell	Fax		451-2920	451-2858
Lt. Governor's Office (Juneau)	Mead Treadwell	Fax		465-3520	465-5400
Senator Murkowski's Washington DC Office	Chief of Staff	Fax	North Slope only	(202) 224-6665	(202) 224-5301
Senator Murkowski's Office in Fairbanks		Fax	North Slope only	456-0233	451-7146
Legislator (Senate T)	Donnie Olson (D)	Fax	Nome	465-3707	465-4821
Legislator (House 40)	Reggie Joule (D)	Fax	Kotzebue	465-4833 or (800) 782-4833	465-4586
Legislator (Senate F)	John Coghill	Fax	Valdez	488-1546 or 465-3719	488-4271 or 465-3258
Legislator (House 12)	Eric Feige	Fax	Valdez	269-0129 or 465- 4859	269-0128 or 465-3799
<b>Other Agencies:</b>					
North Slope Borough	Edward Sagaan Itta	Fax	Mayor	852-0200	852-0337
North Slope Borough	Dan Forster	Fax	Planning Director	852-0440	852-5991