

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 #:** 7

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, January 13, 2011

TIME/DATE OF THE NEXT REPORT: 4:00 PM, January 14, 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 initial estimate of the volume of spilled oil recovered by APSC crews was 2,185 gallons (52 barrels). The volume determined by more precise measure prior to re-injection into the TAPS line is 1,776 gallons (42.3 barrels).

As of noon today, approximately 9,450 gallons (225 barrels) of oil had been recovered since the January 11 TAPS restart.

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 line.

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 flow of oil into the containment tank in the booster pump building basement has remained steady. With the completion yesterday of two additional monitoring holes adjacent to the building, there are now three holes that extend through the pump station's gravel pad to the native soil beneath it for detecting oil in the gravel pad. No oil has been observed during hourly monitoring of these and the three groundwater drainfield sumps, nor during periodic checks of the pad surface and perimeter.

At noon today, the rate of oil flow through the TAPS line was approximately 13,104,000 gallons (312,000 barrels) per day. The North Slope producers were providing oil at a rate of approximately 12,600,000 gallons (300,000 barrels) per day. These rates vary with oil field and pipeline operating requirements. The volume of oil in the Pump Station 1 storage tanks was dropping toward the pre-shutdown target level of 3 feet. Oil will be pumped into the tanks from continuing North Slope production during the upcoming shutdown.

No potential TAPS line leak sites have been identified through overflights or ground-based observations.

The southern cleaning pig reached the Valdez Marine Terminal at 6:25 PM yesterday. The northern pig was captured at Pump Station 8 at 12:25 AM this morning.

APSC continues today to finalize procedures for shutting down the TAPS line and tying in the bypass around the leaking booster pump discharge pipe. The shutdown, estimated to last 36 hours, is targeted for midnight tonight. These time estimates are subject to change.

Fabrication and testing of the final bypass pipe sections was completed this morning. As of noon today, the two flights making the final deliveries of equipment and materials for construction of the pipe were en route to Deadhorse, but weather at Deadhorse threatened to divert the flights to another North Slope airfield. Their cargo would then be trucked to Pump Station 1, which would delay delivery. Work crews at Pump Station 1 have placed some of the 24-inch pipe between the booster pump and metering buildings and through the wall of the metering building, as well as relocated electronic controls and cut a hole for the pipe in the wall of the booster pump building. Crews were also placing spill containments, positioning vacuum trucks and doing other preparatory work for draining the existing booster pump discharge pipe following the shutdown.

APSC anticipates that pre-assembly of all cold restart piping at Pump Stations 3, 5, 7, and 9 will be complete tonight. This piping will not be tied into the pump stations' piping unless a cold restart is implemented. Temperatures to 30 below zero were hampering efforts to stage the cold restart auxiliary pump and additional piping at Pump Station 12, which APSC now estimates will take two more days to complete.

Two first aid injuries have been reported. Both workers received first aid treatment from onsite medics and resumed work. The safety of responders, the public and the environment remains the top priority of the Unified Command.

SOURCE CONTROL: The TAPS line was shut down shortly after the spill was discovered. Workers continue preparations to isolate and drain the compromised discharge piping once the TAPS line is shut down for the bypass tie-in. Containment and recovery equipment in place exceed the capacity necessary to manage the seep of oil into the booster pump building.

RESOURCES AFFECTED: Pump Station 1 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. No oil has been observed outside the booster pump building.

FUTURE PLANS AND RECOMMENDATIONS: ADEC personnel will remain at Pump Station 1 to observe oil recovery, pollution monitoring, shutdown, and bypass installation. Additional ADEC staff will be on duty at the Fairbanks command post through the shutdown and subsequent restart. Oil recovery and pollution monitoring at Pump Station 1 are ongoing.

WEATHER: Forecasts for several locations on the TAPS line for today through tomorrow (temperatures in ° F): Prudhoe Bay – mostly cloudy with scattered flurries today and tonight, partly cloudy tomorrow; high today 5 to 15 below, low tonight 15 to 20 below, high tomorrow 5 to 10 below; east winds around 10 mph, turning to light winds tonight and tomorrow.

Fairbanks – mostly clear today, tonight and tomorrow; high today 0 to 20 below in the valleys and 0 to 10 above in the hills, low tonight 25 to 35 below in the valleys and 0 to 10 above in the hills, high tomorrow 10 to 20 below in the valleys and 10 above in the hills; east winds 10 to 15 mph over summits and light winds elsewhere for today, tonight and tomorrow.

Glennallen – clear and sunny through tomorrow; high today 10 to 20 below and 0 to 5 below through the passes, low tonight 30 to 40 below and 5 to 15 below through the passes, high tomorrow 25 below and 5 to 15 below through the passes; light winds except northeast winds 15 to 30 mph gusting to 40 mph through channeled areas along the Alaska range, slightly diminishing tonight and tomorrow.

Valdez – clear and sunny through tonight, mostly sunny tomorrow; high today 10 to 15 above and 0 to 10 below through the pass, low tonight 0 to 10 above and 10 below through the pass, high tomorrow 0 to 10 above and 10 below through the pass; northeast wind 20 to 35 mph gusting to 55 mph, except north wind 40 to 55 mph through the pass. Wind chill advisory to 40 below through Thompson Pass in effect now until noon Saturday.

Prudhoe Bay is located above the Arctic Circle. The next sunrise will occur at 12:42 PM on January 19, 2011; sunset will occur 44 minutes later.

UNIFIED COMMAND AND PERSONNEL:

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

FOR ADDITIONAL INFORMATION CONTACT: Unified Command Joint Information Center 907-450-5857

Photographs and other incident information are available for viewing at:
www.dec.state.ak.us/spar/ps1

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
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
Other Agencies:					
North Slope Borough	Edward Sagan Itta	Fax	Mayor	852-0200	852-0337
North Slope Borough	Dan Forster	Fax	Planning Director	852-0440	852-5991



The 24-inch bypass line, under construction, enters the metering building
ADEC photo 1/14/2011



The section of pipe at Pump Station 8 in which the northern pig was trapped and the bypass line through which oil is being diverted around it
ADEC photo 1/12/2011