

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 #:** 2

SPILL NUMBER: 11399900801 **LEDGER CODE:** Requested

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 9, 2011

TIME/DATE OF THE NEXT REPORT: 3:00 PM, January 10, 2011

TYPE/AMOUNT OF PRODUCT SPILLED: Crude oil appears to have been released from a concrete-encapsulated section of the booster pumps' underground discharge piping outside the booster pump building. Oil flowed along the pipe and through the wall of the building into the basement. There are several pipes in the concrete casing, and the leaking pipe has not yet been definitively identified. As of 6:00 AM today, Alyeska estimated that approximately 378 to 420 gallons (9 to 10 barrels) of oil had been recovered from the building. It has not yet been determined whether oil has been released into the ground outside the concrete pipe casing and booster pump building.

LOCATION: TAPS Pump Station 1, Prudhoe Bay

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

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

RESPONSE ACTION: Three groups have been established within the incident response organization to tackle the primary objectives of the response: oil recovery, repairing and re-routing the pump station piping, and restarting the TAPS line.

Oil recovery: By 6:00 PM on January 8, hydrocarbon vapors in the booster pump building had been reduced to levels at which workers could safely enter it to remove the oil. The oil, approximately ½ to 1 inch deep on the approximately 30-by-40-foot floor of the basement, was recovered with vacuum trucks and will be reinjected into the pipeline. Workers continue to collect oil that is seeping slowly into the basement. The recovered oil volume will be more precisely measured at the reinjection point.

Pipe repair and re-routing: The section of pipe that is suspected of being damaged is part of a common discharge line fed by all three pumps in the booster pump building. APSC workers are preparing to disconnect, drain and seal off this pipe section; it will no longer be used. North Slope production has been reduced to approximately 5 percent of normal volume, and oil is currently being pumped to storage tanks at Pump Station 1. APSC is working on plans to install a bypass line to carry oil from booster pump 1 to the main TAPS line pump.

TAPS restart: APSC staff are taking steps to prevent problems with the TAPS line due to cold temperatures and the duration of the shutdown. Temperature sensors are being installed at numerous points on the TAPS line to monitor the pipe temperature. APSC is planning to periodically circulate oil within the pump stations to keep pumps, oil and facility piping warm. APSC staff are also refining a "cold restart" procedure and will restart the line when state and

federal regulators are confident that it can be done safely, without damage to the TAPS system and with minimal risk of an additional release.

ADEC and Environmental Protection Agency (EPA) responders are at the North Slope to monitor the oil recovery and pump station pipe repairs around-the-clock. APSC and government agency responders are also monitoring areas outside the booster pump building for signs of a release.

SOURCE CONTROL: The lines supplying crude oil to the booster pumps were shut in, and workers are preparing to isolate and drain the apparently damaged pipe. As of noon today, oil remaining in the pipe and/or spill pathway was still seeping at an estimated rate of one half-gallon per minute into the booster pump building basement.

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 reported outside the booster pump building.

FUTURE PLANS AND RECOMMENDATIONS: APSC will continue to collect and cleanup oil in the booster pump building and is preparing a plan to locate any oil that may have spilled into gravel outside the booster pump building. As part of its effort to verify the location of the leak, APSC plans to leak-test piping on the suction side of the booster pump.

Parts necessary to repair the booster discharge line and construct bypass piping are being fabricated in Fairbanks and will be flown to the North Slope. APSC continues to refine plans for bypassing the normal booster pump configuration, preventing cold-condition problems in the TAPS line during the shutdown, and restarting the TAPS line.

WEATHER: Today – a winter weather advisory is in effect until 5:00 PM; high temperature 20 to 25° F, chance of snow and light freezing rain, southeast winds turning southwest 15 to 25 mph, areas of blowing snow. Tonight – chance of snow, patchy fog, low 10 to 15° F, wind 10 to 20 mph. Monday – areas of fog, high 20 to 30° F, west wind to 15 mph.

UNIFIED COMMAND AND PERSONNEL:

Incident Commander: John Baldrige
F.O.S.C.: Matt Carr
S.O.S.C.: Tom DeRuyter
Field S.O.S.C.: Paul Lhotka

FOR ADDITIONAL INFORMATION CONTACT: Tom DeRuyter 907-451-2145

AGENCY/STAKEHOLDER	NAME	SENT VIA	ADDITIONAL INFO	TELEPHONE	FAX
ADNR	Leon Lynch/ Melissa Head/ Larry Byrne Justin Selvik Mike Thompson Alison Iversen	Fax email email email		451-2732/ 451-2719/ 451-2724	451-2751 or 659-2965 272-0690
ADF&G (Habitat)	Al Ott/Jack Winters Lee McKinley	Fax email		459-7285 or 459-7279	459-7303
AOGCC		Fax			276-7542
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

AGENCY/STAKEHOLDER	NAME	SENT VIA	ADDITIONAL INFO	TELEPHONE	FAX
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 Sagaan Itta	Fax	Mayor	852-0200	852-0337
North Slope Borough	Dan Forster	Fax	Planning Director	852-0440	852-5991

