

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 #:** 3

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: 5:00 PM, January 10, 2011

TIME/DATE OF THE NEXT REPORT: 4:00 PM, January 11, 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 into the basement where a pipe pass through the wall. There are several pipes in the concrete casing, and the leaking pipe has not yet been definitively identified. As of 10:00 AM today, APSC estimated that approximately 750 gallons (18 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: The pipeline remains shut down. Production from North Slope oil fields, which continues at 5 percent of the normal volume, is being stored in tanks at Pump Station 1. More than 200 people from APSC and various state and federal agencies are involved in the response to this incident. The response organization includes 25 task forces working directly on the response's primary objectives. Those include:

- continue to recover oil from and clean up the booster pump building;
- determine whether oil escaped into the ground;
- isolate and bypass the compromised booster pump piping section;
- continue to make preparations for both a standard and a cold restart of the TAPS line.

Oil recovery and cleanup: APSC crews continue to recover oil that is slowly seeping from the wall of the booster pump building basement by periodically removing accumulated oil with a vacuum truck. Today workers are installing a containment vault at the seep site to facilitate oil collection. ADEC approved a waste management plan yesterday for the handling of recovered oil, oily wastes and hazardous wastes, as well as garbage, demolition waste and other wastes associated with the response.

Contamination assessment: Overnight, APSC crews inspected several groundwater drainage system sumps around the booster pump building and found that all were free of oil. ADEC and EPA are reviewing the contamination assessment plan developed by an APSC contractor. The contractor arrived at Pump Station 1 this morning to begin preliminary work to determine whether oil is present in the soil. The initial investigation will rely on observation of existing monitoring wells and thermal imaging. More detailed investigative work will be undertaken once response activities at the pump station have been completed.

Discharge pipe isolation and bypass: A leak test conducted by APSC verified the integrity of the booster pumps' suction-side piping, which is encased in the same concrete casing as the discharge piping. The test result provides additional evidence that the leak is in the discharge piping. APSC continues to refine the design for a bypass pipe to connect one of the three booster pumps to the main TAPS pump. Workers have begun preparatory work for draining the existing discharge pipe, installing a blind flange to seal it off, and installing the 157-foot bypass pipe. Two APSC-chartered C-130s delivered parts and equipment to the North Slope yesterday, and another delivery flight was scheduled for today.

TAPS restart: APSC staff are continuing to plan and implement procedures necessary to safely return the TAPS line to operation. These include procedures for both a normal restart and a cold restart, which may be necessary if certain conditions result from an extended winter shutdown. A cold restart is a more complex restart process involving additional preliminary steps such as monitoring pipe temperatures, periodically circulating oil through equipment, implementing various freeze-up prevention measures, and installing additional piping and equipment at pump stations and other locations on the TAPS line.

APSC is conducting leak-detection surveillance along the length of the TAPS line using both aircraft- and ground-based crews.

SOURCE CONTROL: The lines supplying crude oil to the booster pumps were shut in, and workers are preparing to isolate and drain the discharge piping. Oil remaining in the piping and/or spill pathway is still seeping slowly 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 observed outside the booster pump building.

FUTURE PLANS AND RECOMMENDATIONS: APSC will continue to collect and cleanup oil in the booster pump building, and the preliminary contamination assessment around the booster pump building will be ongoing. Parts necessary for pipe work will be flown to the North Slope as fabrication in Fairbanks is completed. Work will continue to regain booster pump functionality. APSC continues to work with state and federal regulators to plan and implement restart procedures.

WEATHER: Unseasonably warm temperatures along the length of the TAPS line are beginning to give way to more seasonable cold. The forecast for Prudhoe Bay:

Today – areas of freezing drizzle and fog, scattered snow showers, high 25 to 30° F, west wind 10 to 15 mph.

Tonight – patchy fog, low 5 to 10° F, light wind becoming east to 10 mph.

Tuesday – Partly cloudy, high 5 to 10° F, east wind 10 to 15 mph.

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.: Paul Lhotka, ADEC

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

AGENCY/STAKEHOLDER NOTIFICATION LIST

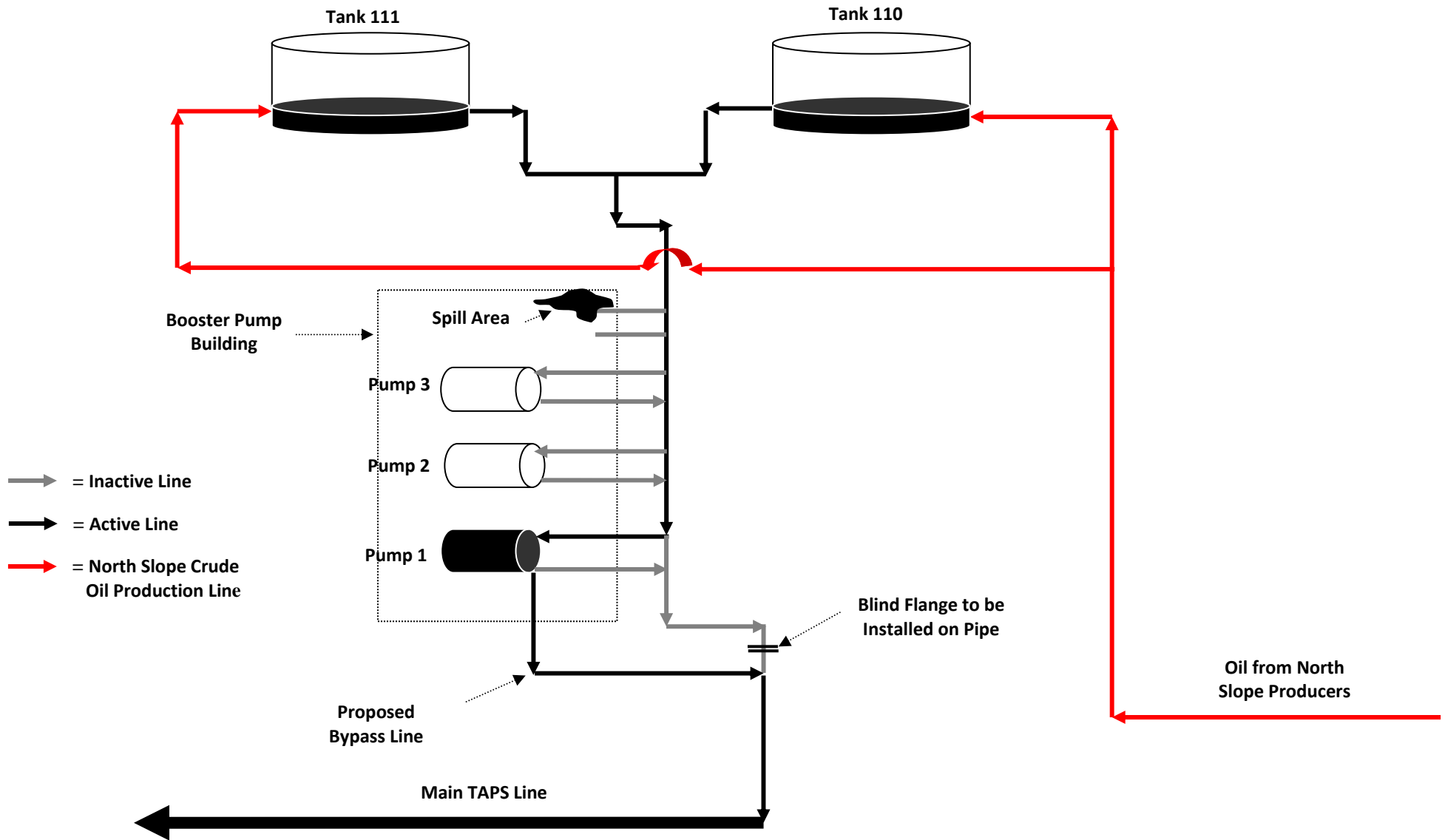
This sitrep has been distributed to the following agencies and stakeholders. The situation report was also distributed to the various agency staff listed on the standard distribution list. The receiving agencies listed in the standard distribution list includes: Governor's office, Senator Begich's office, 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 Sagaan Itta	Fax	Mayor	852-0200	852-0337
North Slope Borough	Dan Forster	Fax	Planning Director	852-0440	852-5991

Pump Station 1



APSC photo



General Schematic of Oil Flow from North Slope Producers at Pump Station 1 and Proposed Bypass Line