

2018 Oil Spill Response (OSR) Training and Exercise Results

1. 31 May 2018: Training Exercises were conducted for response to a simulated oil spill during oil offloading into tankers from Sokol Single Point Mooring in Chikhachev Bay operated by Exxon Neftegas Limited (hereinafter – ENL).

Topic: Containment of and response to a simulated oil spill during oil offloading into tankers from ENL's Sokol Single Point Mooring, in Chikhachev Bay and its shoreline.

The observers from the following Federal executive authorities, the government agencies of the RF constituent entities, and from local government authorities:

- Federal Agency of Maritime and River Transport (Rosmorrechflot);
- Pacific Marine Directorate of the Federal Service for Supervision of Nature Resources;
- Administration of De-Kastri rural settlement of Ulchsky Municipal District of Khabarovsk Krai.

Manpower and resources involved in the training:

Coordinating Body:

- Operations Management Headquarters at De-Kastri OET facility;
- ENL's CES and FS, at the Yuzhno-Sakhalinsk HQ.

Duty Services:

- Operators of Duty Dispatcher Service of De-Kastri OET facility;
- Marine Dispatcher of De-Kastri OET facility.

Emergency Response Teams:

- PERT Nakhodka Branch of JSC Rosnefteflot (response operations in the water area):
 - Neftegaz 70 OSR vessel;
- PERT Marine Rescue Service of Rosmorrechflot (response operations in the water area):
 - Spasatel Kavdeikin OSR vessel;
- Polarus Company (response operations in the water area):
 - Polar Pevek OSR vessel;
- Femco (simulation of the troubled tanker):
 - Normann OSR vessel;
- Smit Lamnalco, LLC (response operations in the water area):
 - De-Kastri roadstead cutter;
- PERT ECOSPAS Sakhalin Center, Branch of JSC Center for Emergency, Rescue and Ecological Operations (protection of the SPNAs and shoreline);
- Romona LLC (aerial reconnaissance using drones);
- Access-ASC Ltd (response personnel for shoreline protection);
- Inhouse security service of the Ministry of Transport (Vladivostok Branch).

Exercise scenario:

On 31 May 2018, during offloading oil from the SPM into an Aframax tanker, an emergency situation occurred: a 3-d party vessel collided with the tanker moored by the SMP. As a result, the Aframax tanker's portside was ruptured above the waterline and two adjacent tanks were damaged resulting in a simulated spill of 10231 m3 of crude into the Chikhachev Bay water area.

Exercise purpose:

- Practical deployment of the OSR manpower and equipment in the Chikhachev Bay water area:
 - reconnaissance of the oil spill location;
 - containment of the spilled oil;
 - application of oil skimming equipment in the water area.

- Implementation of measures for protection of the shoreline, specially protected natural areas and final cleaning of the Chikhachev Bay water area.
- Drill aimed at interaction of own and engaged manpower and equipment for response to the maximum design oil spill volume under the scenario “Plan of Prevention of and Response to Oil and Petroleum Product Spills During Offloading Oil into Tankers via Sokol Single Point Mooring Facility of ENL in Chikhachev Bay”.
- Assessment of the sufficiency of ENL’s manpower and equipment for containment of and response to the oil spill, in line with the “Plan of Prevention of and Response to Oil and Petroleum Product Spills During Offloading Oil into Tankers via Sokol Single Point Mooring Facility of Exxon Neftegas Limited in Chikhachev Bay”.
- Drill of interactions of the ENL management bodies under the ER regime for containment of and response to the oil spill from a tanker in Chikhachev Bay.
- Transmission of reports and training the use of the procedure for notifying the oversight authorities of the oil spill by the members of the ENL’s Operations Management HQ and CES&FS.

The exercise participants and observers recognized the high level of training and alignment of the De-Kastri OET Operations Management HQ members, of the crews of Polar Pevek, Neftegaz 70, Spasatel Kavdeykin crews, of the boom cutters crews, as well as of all the PERT members that participated in the exercise. All of the goals and objectives of the exercise have been achieved as confirmed by the observers.

Work of the Operations Management Headquarters



Deployment of response personnel and equipment in the Chikhachev Bay water area





2. 26 September: facility-level exercises were conducted at Odoptu NWS

Topic: Response to a simulated oil spill in Piltun Bay, Day II (the subsequent response phase).

Manpower and resources:

- ENL Operations Management Headquarters of ENL (Yuzhno-Sakhalinsk)
- ENL Emergency Support Group (Yuzhno-Sakhalinsk)
- Operations Management Headquarters at Odoptu NWS facility
- Emergency Response Services at Odoptu and Chayvo OPF

Exercise scenario:

Simulated rupture (due to corrosion) of the 16” flowline from Odoptu NWS to Chayvo OPF, between control points (CP) 4 and 5, resulting in a significant spill of oil (Tier 2) in Piltun Bay.

During the training the following activities were carried out:

- assessment of capability of the Emergency Management Center at Odoptu to arrange for and control implementation of response measures at the initial oil and product spill response phase;
- practical training in the use of all oil spill response personnel and equipment available to Emergency Response Services at Odoptu and Chayvo OPF and the Operations Management Headquarters for responding to an oil/product spill at the stage of “reactive” response;
- check of coordination between the Emergency Support Group, the Operations Management Headquarters and Emergency Response Services at Odoptu and Chayvo OPF during the first phase of response;
- practical training in the use of the notification procedure for notifications within the company and external notifications;
- check of Operations Management Headquarters’ oil and product spill response activity planning skills at the tactical level;
- practical training in interaction, documenting and planning at the Operations Management Headquarters;
- placement of oil and product spill response equipment on the shore and in the bay to confirm equipment readiness;
- Practical training in cooperation and coordination between ENL response services and third party contractor services.

Readiness of OSR equipment and emergency service personnel at the Berkut platform, Chayvo OPF and Odoptu-2 WS (North) for oil spill response operations at offshore facilities has been evaluated and confirmed during the training exercise.

Oil spill containment and response equipment, as well as equipment for the protection of specially protected natural areas, was successfully deployed in Chayvo Bay and Piltun Bay water areas. Facility personnel were engaged in the development of their skills in wild animal and bird protection and rehabilitation.

The exercises also included practical drills based on the provisions of the Integrated Corporate Oil Spill Prevention and Response Plan for ENL Sakhalin-1 Production Facilities.

Work of the Operations Management Headquarters



Deployment of the response personnel and equipment in Piltun Bay.



OSR and ER training

Training is a key factor in emergency response preparation and has a direct impact on the safety and efficiency of all operations.

ENL training and exercise program ensures that all designated response personnel are able to respond to a spill in a quick and competent manner. The training and exercise program includes the following basic sections:

- review of OSR regulations and training on the characteristics of facilities, including the OSR plan;
- training in oil spill response methods and the use of equipment, including drills and exercises (according to a regular schedule) and training in occupational safety and safety rules for performing the work;
- special tactical exercises involving equipment mobilization in the field conditions;
- tabletop exercises, including the Yuzhno-Sakhalinsk ESG and site Emergency Management Teams (EMTs);
- warning and notification exercises;
- comprehensive exercises.

In order to maintain high readiness for OSR and emergency response, regular classes on specific topics, training sessions, and training classes were regularly held at all Sakhalin-1 facilities and attended by ENL and ENL subcontractor personnel. The following drills were conducted: OSR, fire safety, first aid, facility personnel assembly and evacuation procedures, etc. Over 411 scheduled and unscheduled drills were held at Sakhalin-1 facilities in 2018:

- Berkut fixed offshore platform – 100 drills,
- Orlan fixed offshore platform – 118 drills,

- Odoptu North Wellsite — 80 drills,
- Chayvo OPF – 102 drills,
- De-Kastri OET– 91 drills.