E&P (Onshore)  
Title: Major Fire Accident at a Drilling Rig  
Location: Power Pack engines  
Activity Type: Round trip operations at well  
Result/outcome: Fire broke out and affected all the four Power Packs

What Happened?
At the time of fire incident, laying down of Bottom Hole Assembly (BHA) was underway. Heavy black smoke in between Power Pack 4 and 3 was noticed around 16:00 hrs. and subsequently a fire broke out and affected all the four Power Packs installed at the rig. There was no human loss or casualty. Fire crew suffered minor injury when DCP accidentally got sprayed into his eye. Individual was immediately taken to DSA clinic, where he was released after primary care. Most of the power packs were rendered unusable after the fire.

What Caused It?
At the time of the fire incident, pulling out operations (laying down of BHA) was in progress. Since the drill string was out of the hole, load at the engines was at its minimum. Hence there was very low possibility of engine getting over heated. There was spilt lube oil and HSD all around the bund area of the Power Packs which caught fire due to hot jobs around the power packs and improper earthing. The oil/fuel accumulation had occurred on account of spillage during running/maintenance of engines. Initial fire fighting measures seemed inadequate.

Corrective Actions:
- Avoid accumulation of HSD / lube oil around the power packs of Drilling rig.
- Proper drainage system should be there around the foundation area of power packs and power pack foundation floor should be kept free from oil and surrounding areas free of dry vegetation.
- Firefighting training to be made compulsory for all rig crew.
- Work permit system as per OISD-STD-105 shall be followed.
- Power packs should be properly earthed.
- Fixed firefighting system should be installed at the rig as per OISD-STD-189.

Provided for information purpose only. This information should be evaluated to determine if it is applicable in your operations, to avoid reoccurrence of such incidents.