

Laboratory Waste Services

Presentation for 2004 Shift E-Squad

OAK RIDGE NATIONAL LABORATORY
U. S. DEPARTMENT OF ENERGY

Laboratory Waste Services (LWS)



Hazardous Material Spill Response

- LWS performs Hazardous Material Spill response for the ORNL site.
- Made up of UT-Battelle and WesKem chemical operators
- The Laboratory Shift Superintendent (LSS) Office (574-6606) is the point of contact for reporting spills and they will activate the Spill Response Team.

Hazardous Material Spill Response

- The Spill Response Team responds to from 90 to 100 spill a year.
- A major response for 2003 was the cylinder issue.
- A few examples of responses are oil, antifreeze, fuel, mercury, acids, gases, and biohazards.
- After 9/11, we have the responsibility of investigating suspicious mail.

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Since 9/11 we look at all calls differently. WMD, rad, biological, etc.

HAZMAT Spill Response Van – Located at Bldg. 3621 (RUBB Structure)



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Important for you, Shift E-Squad to know location and what's available inside the building and on the van. All the emergency equipment that was located at creek buildings (3610/7875) no longer have supplies/equipment.

Left Rear Compartment - 11KW Diesel Generator



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Right Exterior Compartment with Electrical Equipment



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HAZMAT van has the capability of operating off of shore power, generator, and is 110 dual volt.

Right Front Exterior Cabinet, which contains Pressurized Drum Puncturing Equipment



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Drum puncturing device can be operated off of SCBA bottle or air line from the HAZMAT van.

Left Front Exterior – Neutralizing Agents/absorbent Materials



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Neutralizing agents for acids, and caustics and absorbent materials for oil spills and extra SCBA bottles

Left Front Exterior – Neutralizing Agents/absorbent Materials



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Command Center



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This is where we have technical information officer and we have reference sources such as hard copy and laptop with CD ROM, fax machine, etc.

Building 3621 Emergency Response Equipment Storage Facility



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All of the equipment that was kept in the creek buildings is now in this facility. Also available, level A suits, absorbent pads, absorbent booms, absorbent pigs, magic sorb, HEPA vacs, pumps, emergency generators, and various containers and absorbent materials used for waste packaging.

Southside of Building 3621



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Eastside of Building 3621



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HAZMAT Response Trailer



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Located on the southside of 3621

Spill Response Boom Trailer



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Contains absorbent booms and skimmer pump for pumping/skimming oil from water way.

Inside the Boom Trailer



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The rear section of the trailer contains...containment booms, skimmer pump. The front section of the trailer contains absorbent pads and booms and floatation devices for suction hoses.

Specialty Gas Emergency Response Unit



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Containment vessel



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Chlorine Containment Vessel



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Level A kit for leaking cylinders and leaking cylinder cap containment devices.

Gas Cylinder Response

- Leaking Cylinder Containment Vessel



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Oil Spill Recovery Unit



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Interior of Oil Spill Trailer



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Absorbent pads, pigs, booms, clay, drums, shovels, brooms, and PPE is available in this trailer.

Drums, Booms, etc. inside the Oil Trailer



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Absorbents in Oil Trailer



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Decontamination Trailer



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Rear of Decontamination Trailer



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Contains decon equipment for setting up a decon line.

Front of Decontamination Trailer



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**Contains SCBA, Level A PPE, inflatable decon
containment pool**

Decontamination



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Your responsibility/role as the Shift E-Squad member is to support the operations of the Response team in an area outside of Hot or Warm zone. Could consist of logistics, third and final stage of decon, and or communications and other possible roles.