

**FORM S+H 5-1 JOB HAZARD ANALYSIS**

<b>JOB HAZARD ANALYSIS</b>		Date: 12-13-99
Contract:(If Applicable)		Phase: <b>Confined Space</b>
LLNL Group/Contractor/ Subcontractor/Subtier: Nielsen Dillingham Builders Inc.		Location:
ACTIVITY OPERATIONS	UNSAFE CONDITION, ACTION or OTHER HAZARD	PREVENTATIVE or CORRECTIVE ACTION THAT WILL BE TAKEN
Connect Utilities	Confined space, entrapment, oxygen deficiency, toxic & explosive atmospheres, and asphyxiation uncontrolled energized equipment.	Prepare written operating procedures & train employees.
“	“	Lines containing hazardous substances must be disconnected, blinded, or blocked. Apply lockout/tagout controls as appropriate.
“	“	The space must be emptied, flushed or purged.
“	“	The air must be tested for dangerous contamination or oxygen deficiency. The test will be for : Carbon Monoxide, Lower Explosive Limit, Hydrogen Sulfide and Oxygen Level.
“	“	Ventilation is required if testing reveals any hazard.
“	“	Confined spaces where dangerous air contamination exists require: <ul style="list-style-type: none"> <li>• Appropriate respiratory protection: Half mask respirator with chemical filter required for Contractor and NDBI.</li> <li>• Provision made for feasible entry and exit.</li> <li>• One standby employee ( with respirator) trained in first aid and CPR, plus one additional employee within sight or call.</li> <li>• Provide an effective means of communication between the employee in the confined space and the standby employee.</li> </ul>

*Nielsen Dillingham Builders Inc.*

		<ul style="list-style-type: none"> <li>Ongoing surveillance of the surrounding area to avoid hazards such as vapors drifting from nearby tanks, piping and sewers .</li> </ul>
"	"	Utilities that may discharge into the area will be locked out/ blocked out.
"	Falls	Fall protection will be provided as necessary.
"	"	A rescue/ retrieval system will be used if ingress/ egress is not easily available.
"	Fire	A fire extinguisher will be available if flammable materials are present.

Group/Contractor/Subcontractor Review \_\_\_\_\_

Subtier Review \_\_\_\_\_