

**University of Idaho  
Confined Space List**

revised 5/26/2021

Space ID	Location	Description	Actual or Potential Hazards Identified	Permit Required? (Y/N)	Reclassification or Alternative Procedures Permitted? (Y/N)
AS_1	Ag. Science Rm. 34 – Loading Dock-East Caged Area-North Wall	4' diameter air return plenum	- Single, restricted means of entry - Plenum wrap exposed at joints contain asbestos which, if abraded, could pose a health hazard - Air movement when fans are running could pose a foreign object eye hazard - Potential for shock hazard requires electrical equipment used in space to be GFCI protected	N	* Restricted Access
AS_2	Ag. Science East side of building	Exterior fresh- air intake well	- Potential for oxygen deficiency and/or H2S from decaying plant matter - Fall hazard while entering/exiting	N	* Grated, No Access
BEL_1-1 BEL_1-2 BEL_1-3 BEL_1-4 BEL_1-5	Buchanan Engineering Laboratory, Rooms G1 and G6: Each vault space is approx. 8' wide x 8' high x 50' long	Water Holding Vaults – 5 possible entry points	- Poor natural ventilation could allow an atmospheric hazard to develop - Engulfment & slip & fall hazard while entering/exiting - Manhole size openings could impede self-rescue - Operations such as welding or the use of toxic chemicals within or in close proximity to the space could pose a serious hazard to entrants if special control measures are not taken.	Y	Y
BTI_1	Business & Tech. Incubator Mechanical Room	Crawl space under building	Poor natural ventilation could allow an atmospheric hazard to develop.	N	Air Monitoring
CNR_1	College of Natural Resources (exterior of building, southeast corner)	Chiller Pit	- Oxygen Deficiency caused by presence of CO from emergency generator exhaust pipe and/or H2S from decaying plant matter - Fall hazard while entering/exiting	N	* Grated, Restricted Access Air Monitoring
CNR_2	College of Natural Resources (exterior of building, middle of south-side )	Underground water storage tank, out of service	- Oxygen Deficiency - Engulfment hazard - Fall hazard while entering/exiting	Y	No Access, welded closed
CP_(FMO-ID#)	List available from HVAC Foreperson 208-885-6378	Chiller Pits	- Potential that pit contains decomposing organic matter that could create an oxygen deficiency and/or chemical residues - Pit could fill with water if sump fails - Slip, trip and fall hazards present - Lines under pressure servicing space - Welding or use of solvents or heavy compressed gases adjacent to space could create an atmospheric/fire hazard. - Potential for shock hazard requires electrical equipment used in space to be GFCI protected.	Y	Y
CT_(FMO-ID#)	FMO List available from HVAC Foreperson 208-885-6378	Cooling Towers	Oxygen Deficiency, depending on presence of decaying vegetable matter or rusted interior surfaces Chemicals piped into space Presence of mechanical equipment Entrapment hazard posed by sloped and/or converging walls Poor natural ventilation could allow a hazardous atmosphere to develop Potential presence/use of corrosives that could irritate skin/eyes	Y	Y
DF_1	Dairy Farm Milk Collection Room	Storage Tank	No access - clean from exterior	Y	No Access
EV_(FMO-ID#)	FMO list available from Electric Shop Foreman 208-885-6249	Underground Electrical Vaults	Oxygen Deficiency Electrocution from energized equipment Fall hazard while entering/exiting Water accumulation present in many vaults increases risk of Electrocution as well as drowning if slip or Fall occurs	Y NOTE: No entry permitted without prior approval of FMO Electrical Shop Foreman (or authorized designee)	*Y
FM_01	Feedmill	Large Storage Silo (SW corner of Feedmill Complex)	Out of Service - No access possible	Y	No Access
FM_02	Feedmill	Roller Mill Bld. - Dump Auger Pit	Grate welded shut	Y	No Access
Bins 1-5	Feedmill	Roller Mill Bld. - Outside Bins 1 thru 5	No access for any reason	Y	No Access
FM_13	Feedmill	Mixing Bld. - Grain Mixer Pit	Oxygen Deficiency, depending on presence of decaying vegetable matter or rusted interior surfaces Mechanical hazards Dust inhalation hazards	Y	* Air Monitoring

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GC_1	UI Golf Course, NW Corner (adjacent to Water Storage Tank)	Altitude Water Valve Pit	Possible presence of rust on interior surfaces - (Water) lines under pressure servicing space - Poor natural ventilation could allow an atmospheric hazard to develop - Manhole size opening could impede self-rescue	Y	Y
GC_2	UI Golf Course, NW Corner (adjacent to Water Storage Tank)	Domestic Water Fill Pit	- Oxygen Deficiency, depending on presence of decaying organic matter - Possible presence of rust on interior surfaces - (Water) lines under pressure servicing space - Electrical equipment located in space - Poor natural ventilation could allow an atmospheric hazard to develop	Y	* Y
GC_3	UI Golf Course, NE Corner	Domestic Water Fill Pit	- Oxygen Deficiency, depending on presence of decaying organic matter - Possible presence of rust on interior surfaces - (Water) lines under pressure servicing space - Electrical equipment located in space - Poor natural ventilation could allow an atmospheric hazard to develop	Y	* Y
GIBB_1	East of Gibb Solvent Storage Building	250 gallon solvent storage building holding tank	No access - clean from exterior	Y	No Access
GIBB_2	Gibb (Life Science North) Penthouse Mech. Rm.	Large exhaust plenum for lab	- Potential exposures to radioactive or chemical residues - Mechanical hazards - Electrical hazards - Heavy/awkward covers - Slip and fall hazards	Y	* Restricted Access
GIBB_3	Gibb (Life Science North) Penthouse Mech. Rm.	Large duct for air handlers	- Potential exposures to radioactive or chemical residues - Mechanical hazards - Electrical hazards - Heavy/awkward covers - Slip and fall hazards	Y	Restricted Access
HAZMAT_1	Hazmat Building	1000 gallon underground waste-water storage tank	- Potentially hazardous atmosphere due to nature of contents/poor natural ventilation - Contains chemicals or chemical residues; may be corrosive/irritating to skin, eyes and respiratory system. - May contain decomposing organic matter - Pipes bring chemicals into space - Engulfment - Interior surfaces may be rusted - Configuration of space may make self-rescue difficult - Slip, trip and fall hazards - Operations conducted near the space (Handling of hazardous materials) could pose a hazard to entrants	Y	No Access
IRR_1	Test well field, W of Wicks Field on Perimeter Drive	Reclaimed water strainer pit	- Oxygen Deficiency, depending on presence of decaying organic matter - Poor natural ventilation could allow an atmospheric hazard to develop - Possible presence of rust on interior surfaces - (Water) lines under pressure servicing space - Electrical equipment located in space	Y	*
IT_1	Hill above Old Arboretum	Above ground water storage tank for UI campus (1 of 2)	- Engulfment - Oxygen Deficiency - Fall hazard while entering/exiting - Entrapment hazard due to configuration of space - Presence of water increases risk of electrocution when working with power tools	Y	Y
IT_2-1 IT_2-2	Hill above Golf Course, northwest corner	Above ground water storage tank for UI campus (1 of 2)	- Engulfment - Oxygen Deficiency - Presence of water increases risk of electrocution when working with power tools	Y	Y

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IT_3	Hill above Golf Course, northeast corner	Underground valve pit for above ground chiller water storage tank	Slip and fall hazard when entering Oxygen Deficiency, depending on presence of decaying organic matter Poor natural ventilation could allow an atmospheric hazard to develop (Water) lines under pressure servicing space Small opening at top of tank makes self-rescue difficult Engulfment hazard presence of Water increases risk of electrocution if power tools/lights need to be used in space	Y	No Access
JEB_1	Ground Floor Mechanical Room	#7 steam tunnel entry	- Potential for a hazardous atmosphere due to poor air circulation and/or if solvents or chemicals are used inside space - Slip, trip, and fall hazard	N	* Restricted Access
JML_1	J.W. Martin Ag. Engineering Lab, exterior, south side.	6,000 gallon PVC water storage tank.	- Potential for a hazardous atmosphere due to poor air circulation and/or if solvents or chemicals are used inside space - Engulfment hazard - Slip, trip, and fall hazard - Small opening at top of tank makes self-rescue difficult	Y	No Access
LIB_1 through LIB_6	South side of building	Exterior air intake/exhaust well	- Potential for oxygen deficiency and/or H2S from decaying plant matter - Fall hazard while entering/exiting	N	Grated, No Access
LIB_7	West side of building	Exterior utilities well	- Potential for oxygen deficiency and/or H2S from decaying plant matter - Fall hazard while entering/exiting	N	Grated, No Access
LSS_1	Life Science South – Penthouse Mech. Rm.	Exhaust plenum for Lab #457	- Potential exposures to radioactive or chemical residues - Mechanical hazards - Electrical hazards - Heavy/awkward covers - Slip and fall hazards - Noise levels	Y	*
MCCL_1	McClure, Rm. 119	Acid Neutralization Tank	- Oxygen Deficiency - Toxic atmosphere due to presence of acid waste - Burns to skin from contact with acid waste - Fall hazard while entering/exiting - Engulfment	Y	No Access
PPo_1	Energy Plant (Gas Boiler B)	Fire Box	- Oxygen Deficiency - Flammable/toxic atmosphere due to CO concentrations, products used inside space (ie. treatment chemicals) or work being performed inside or near space (i.e., hotwork) - High temperatures - Mechanical hazards	Y	* Y
PPo_2-1 PPo_2-2	Energy Plant (Gas Boiler B)	Mud Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure	Y	* Y
PPo_3-1 PPo_3-2	Energy Plant (Gas Boiler B)	Steam Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure - Entrapment in baffles	Y	* Y
PPoo_1-1 PPoo_1-2 PPoo_1-3 PPoo_1-4	Energy Plant (Wood-fired Boiler A)	Firebox	- Oxygen Deficiency - Flammable/toxic atmosphere due to CO concentrations, products used inside space (ie. treatment chemicals) or work being performed inside or near space (i.e., hotwork) - High temperatures - Mechanical hazards - Entrapment hazards	Y	* Y
PPoo_14 PPoo_15 PPoo_16	Energy Plant (Wood-fired Boiler A)	Ash Hoppers	- Mechanical hazards - Configuration of space restricts mobility and could entrap or make self-rescue difficult - Slip, trip, fall hazard	Y	* Y
PPoo_2-1 PPoo_2-2 PPoo_2-3 PPoo_3-1 PPoo_3-2 PPoo_3-3 PPoo_4-1 PPoo_4-2 PPoo_4-3	Energy Plant (Wood-fired Boiler A)	Underfire Air Zone	- Mechanical hazards	Y	* Y

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PP00_5-1 PP00_5-2 PP00_6-1 PP00_6-2	Energy Plant (Wood-fired Boiler A)	Mud Drums	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure	Y	* Y
PP00_7-1 PP00_7-2	Energy Plant (Wood-fired Boiler A)	Steam Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure - Entrapment in baffles	Y	* Y
PP00_8 PP00_9 PP00_10 PP00_11 PP00_12 PP00_13	Energy Plant (Wood-fired Boiler A)	Exhaust System Spaces	- Potential for hazardous atmosphere due to poor natural ventilation - Space contains combustible substances - Potential that space could contain material that could engulf entrant - Sloped/tapered floor/walls could trap entrant - Thermal (hot) hazard - Slip, trip, fall hazard - Hazards from falling objects - Configuration of space restricts mobility and could entrap or make self-rescue difficult - Residues may need to be scraped off interior surfaces - Space may contain chemical, corrosive residues - Lines under pressure servicing space - Vision may be obscured by dust at 5 feet or less	Y	* Y
PP1_1	Energy Plant (Gas Boiler C)	Firebox	- Oxygen Deficiency - Flammable/toxic atmosphere due to CO concentrations, products used inside space (ie. treatment chemicals) or work being performed inside or near space (i.e., hotwork) - High temperatures - Mechanical hazards - Entrapment hazards	Y	* Y
PP1_2-1 PP1_2-2	Energy Plant (Gas Boiler C)	Mud Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure	Y	* Y
PP1_3-1 PP1_3-2	Energy Plant (Gas Boiler C)	Steam Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure - Entrapment in baffles	Y	* Y
PP4_1	Energy Plant (Gas Boiler D)	Firebox	- Oxygen Deficiency - Flammable/toxic atmosphere due to CO concentrations, products used inside space (ie. treatment chemicals) or work being performed inside or near space (i.e., hotwork) - High temperatures - Mechanical hazards - Entrapment hazards	Y	* Y
PP4_2	Energy Plant (Gas Boiler D)	Mud Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure	Y	* Y
PP4_3	Energy Plant (Gas Boiler D)	Steam Drum	- Oxygen Deficiency - Chemical residues - Engulfment - High temperatures - Presence of lines under pressure - Entrapment in baffles	Y	* Y
PPCSP_1 PPCSP_2	Energy Plant Chiller MCC Room – basement level - Chiller plant/S West corner	Chiller sump pit	- Oxygen Deficiency, depending on presence of decaying vegetable matter or rusted interior surfaces - Engulfment - Slip & fall hazard - Lines under pressure servicing space - Potential shock hazard from electrical equipment due to damp/wet conditions - Poor natural ventilation	Y	No Access
PPFAST_1	Energy Plant	Feedwater Auxiliary Storage Tank	No Access	Y	No Access
PPFT_1 PPFT_2 PPFT_3 PPFT_4	Energy Plant	Charcoal Filters	- Oxygen Deficiency - Entrapment due to configuration of space	Y	Restricted Access

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PPHW_1 PPHW_2	Energy Plant (SE corner of basement level)	Hot Well	- Potential for hazardous atmosphere due to poor natural ventilation, presence of decomposing organic matter, rusted interior surfaces (mechanical ventilation/air monitoring/respiratory protection necessary for entry) - Space contains chemical/corrosive residues - Space may contain decomposing organic matter - Engulfment - Lines under pressure servicing space - Thermal hazard - Shock hazard if electrical equipment is used in space - Configuration of space could make self-rescue difficult - Residues may need to be scraped off interior surfaces	Y	Restricted Access
PPLS_1-1 PPLS_1-2 PPLS_1-3 PPLS_1-4 PPLS_2-1 PPLS_2-2 PPLS_2-3 PPLS_2-4	Energy Plant	Hot lime water softeners	Oxygen Deficiency Engulfment Entrapment Configuration of space makes self-rescue difficult	Y	N
PPLT_1	Energy Plant (inside southeast entry door)	Lime mixing tank	- Respiratory/skin/eye irritation - Mechanical Equipment - Engulfment	Y	*Restricted Access
PPMB_1-1 PPMB_1-2	Energy Plant	Metering Bin	- Potentially hazardous atmosphere due to poor natural ventilation and presence of decomposing organic matter - Combustible substances - Engulfment - Mechanical equipment - Slip, trip, and fall hazards - Hazards from falling objects - Conditions in space could make self-rescue difficult	Y	Restricted Access
PPS 1-1 through PPS 1-16	Energy Plant (Fuel Chip Silo)	Wood Chip Storage Silo	- Oxygen Deficiency - Engulfment - Mechanical hazards	Y	*Y
PPS_2	Energy Plant (Fuel Chip Silo)	Exit Hopper	- Mechanical hazards - Engulfment	Y	*Restricted Access
PPZS_1 PPZS_2 PPZS_3 PPZS_4	Energy Plant	Zeolite water softeners	- Oxygen Deficiency - Engulfment - Entrapment	Y	N
R&EK_1	Kimberly R&E Center	Fire sprinkler system pump vault	- Oxygen Deficiency caused by poor natural ventilation and/or presence of rusted surfaces - Electrocutation/shock from energized equipment - Fall hazard while entering/exiting - Engulfment - Mechanical equipment - Falling objects - Lines under pressure - Awkward/heavy lid on entry - Accumulation of water in vault will increase risk of electrocution as well as drowning if slip or fall occurs	Y	*Restricted Access
R&ET_1	Tetonia R&E Center - Grain Storage Building	Grain Dump Pit Out of Service	- Oxygen Deficiency caused by decaying organic matter and/or presence of rusted surfaces - Fall hazard while entering/exiting - Exposure to mechanical equipment if guards are removed	Y	Grated No Access
SC_1 SC_2	Swim Center (southwest corner of pool tunnel)	Surge tanks	- Engulfment - Potential for flammable/toxic atmosphere depending on products used inside space (ie. applying paint inside tank)	Y	* Y
SC_3	Swim Center (pool tunnel, west side of pool)	Pool drain pit	Grated No Access	Y	No Access
ss_ (FMO-ID#)	FMO List available from Water Systems Manager 208-885-6288	Storm Drains and Municipal Sewer	- Oxygen Deficiency - Flammable/toxic atmosphere (depending on products used, work performed, or unexpectedly introduced into sewer system during entry) - Engulfment - Fall hazard while entering/exiting - Entrapment (if configuration of space or work location makes use of retraction equipment unfeasible)	Y	Y

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ST_(FMO-ID#)	FMO List available from Director of Utility and Energy Services 208-885-0141	Steam Tunnel system under Moscow campus with exception of areas designed for continuous use	<ul style="list-style-type: none"> <li>- Flammable/toxic atmosphere depending on products used inside space (ie. solvents, cleaning chemicals, etc.) or work being performed inside or near space (i.e., hotwork, operating vehicles or gas generators near entry points)</li> <li>- Electrocutation from exposed energized equipment</li> <li>- Water accumulations present increases risk of electrocution when working with power tools</li> <li>- Steam lines under pressure present</li> </ul>	N	* Y
SU_(FMO-ID#)	FMO List available from Plumbing Shop Supervisor 208-885-9407	Sump pits	<ul style="list-style-type: none"> <li>- Oxygen Deficiency caused by poor natural ventilation and possible presence of organic matter and/or rusted surfaces</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Electrocutation from exposed energized equipment or when working with power tools if not plugged into GFCI outlet</li> </ul>	N	* Y Restricted Access
SVV_1	Intersection of Idaho and Rayburn Streets	Steam Valve Vault	<ul style="list-style-type: none"> <li>- Oxygen Deficiency caused by poor natural ventilation and possible presence of organic matter and/or rusted surfaces</li> <li>- Steam lines under pressure</li> <li>- Thermal hazards from pressurized steam lines</li> <li>- Fall hazard while entering/exiting- accumulation of water in vault will increase the risk of drowning if slip or fall occurs</li> <li>- Shock hazard from use of electrically powered tools/equipment in damp/wet conditions</li> <li>- Flammable/toxic atmosphere depending on products used inside space (ie. solvents, cleaning chemicals, etc.) or work being performed inside or near space (i.e., hotwork, operating vehicles or gas generators near entry points)</li> <li>- Falling objects from overhead activities while space is occupied</li> <li>- Awkward/heavy lid on entry</li> </ul>	Y	N
WELL_1 WELL_2 WELL_3 WELL_4	FMO List available from Water Systems Manager 208-885-6288	Manholes for wells	<ul style="list-style-type: none"> <li>- Oxygen Deficiency</li> <li>- Flammable/toxic atmosphere (depending on products used/work performed)</li> <li>- Engulfment</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Electrical shock hazard due to damp/wet conditions</li> <li>- Configuration of space makes self-rescue difficult &amp; significantly restricts mobility</li> </ul>	Y	Y
WFT_(FMO-ID#)	FMO List available from Water Systems Manager 208-885-6288	Water Filter Tanks	<ul style="list-style-type: none"> <li>- Oxygen Deficiency</li> <li>- Flammable/toxic atmosphere (depending on products used/work performed)</li> <li>- Engulfment</li> <li>- Lines into space under pressure</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Electrical shock hazard due to damp/wet conditions</li> <li>- Configuration of space makes self-rescue difficult &amp; significantly restricts mobility</li> </ul>	Y	Y
WTST_1	FMO List available from Water Systems Manager 208-885-6288	2500 gallon Chemical Storage Tank at Water Treatment Plant	<ul style="list-style-type: none"> <li>- Oxygen Deficiency</li> <li>- Engulfment</li> <li>- Lines into space under pressure</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Configuration of space makes entry into and self-rescue difficult</li> </ul>	Y	No Access
WTV_1-1 WTV_1-2 WTV_1-3 WTV_1-4 WTV_1-5 WTV_1-6	FMO List available from Water Systems Manager 208-885-6288	Water Treatment / Storage Vault for reclaimed water. Tank holds 500,000 gallons and measures 150 ft. x 60 ft. x 12 ft. deep 108,000 cu. ft. Vault	<ul style="list-style-type: none"> <li>- Potential for oxygen deficiency caused by presence of chlorine and/or poor natural ventilation and possible presence of organic matter and/or rusted surfaces</li> <li>- Electrical shock hazard if power tools are used in space due to damp/wet conditions</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Engulfment</li> </ul>	Y	N
WTV_2	FMO List available from Water Systems Manager 208-885-6288	Water Treatment Valve Vault	<ul style="list-style-type: none"> <li>- Oxygen Deficiency</li> <li>- Flammable/toxic atmosphere (depending on products used/work performed)</li> <li>- Lines into space under pressure</li> <li>- Slip/Fall hazard while entering/exiting</li> <li>- Electrical shock hazard due to damp/wet conditions</li> <li>- Configuration of space makes self-rescue difficult restricts mobility</li> </ul>	Y	Y

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WVP_1 WVP_2 WVP_3	Kibbie Dome Parking Lot (Northwest Corner)	Water Valve Pit	<ul style="list-style-type: none"> <li>- Slip and fall hazard when entering</li> <li>- Oxygen Deficiency, depending on presence of decaying organic matter</li> <li>- Poor natural ventilation could allow an atmospheric hazard to develop</li> <li>- Possible presence of rust on interior surfaces</li> <li>- (Water) lines under pressure servicing space</li> <li>- Small opening at top of tank makes self- rescue difficult</li> <li>- Engulfment hazard</li> <li>- Presence of water increases risk of electrocution if power tools/lights need to be used in space</li> </ul>	Y	N
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