

UWM

Confined Space / Hazardous Space Inventory (Under Continuous Development)

Version:
Jan. 2008

Please Note: The UWM Inventory of Hazardous/Confined Spaces is under continuous development. This list is *not* comprehensive or complete; this inventory is listed either by building or generic type of space. Hazardous/Confined spaces are *not* necessarily labeled, so all personnel, including contractors, must be able to (1) identify these spaces; (2) identify potential hazards associated with these areas, and (3) understand and follow precautions and safe practices when working in these spaces. Please see the following web page for more information:

www.safety.uwm.edu/EHS/CONFINEDSPACE/

Common Abbreviations:

A = Air Monitoring
 BL = Blower or Auxiliary Ventilation
 2WC = 2-way communications
 GFCI = ground-fault circuit interrupt protection
 HH = Hardhat
 HWP = Hot Work Permit
 SA = Safety Attendant
 EHSRM = Department once known as Environmental Health, Safety and Risk Mgmt.
 ERS = Emergency Retrieval System
 FL = Flashlight
 FP = Fall Protection (harness, lanyard, anchor point)
 LOTO = Lockout / Tagout Procedures
 P = Permit
 PPE = Personal Protective Equipment
 SN = Supervisor Notification
 SPPE = Special Personal Protective Equipment
 R = Respirator
 PAV = Portable Auxiliary Ventilation

NOTE: Please check the web version for most current information of this document.

NOTE: Please submit any newly discovered confined/hazardous spaces to Robert Grieshaber, Physical Plant Services, for review.

NOTE: master document maintained by Robert Grieshaber

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:							
Building:	Room Number:	Description of Space:	OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Alumni House	B4	subterranean walkway leading to abandoned reflecting pool.		SN, See Comments	See comments	Space requires investigation and hazard analysis (Feb. 2000).	ND
Architecture and Urban Planning	B1	Equipment rooms that are hard to get to, to get out of, or with only one way out	Other:	2WC OR SN	Remote location.		2/17/2000
Architecture and Urban Planning	Outdoors	Ventilation wells (pits under air intake grills)	C7 Reclassification Hazard Eliminated	2WC OR SN	Fall potential	use ladder, barricade opening	1/15/2000
Architecture and Urban Planning	X, Y Elevator Pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
ART	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
ART	AB45	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C5 Alternate Entry-Ventilate	A, 2WC OR SN, BL	Sewer gas, Asphyxiation	SUMP PUMP IN THIS SPACE	1/14/2000
ART Lecture Building	Lecture Hall	Sump pits and utility crawl spaces along north and south wall. Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C5 Alternate Entry-Ventilate	A, 2WC OR SN, BL	Sewer gas, Asphyxiation	Sump pump in this space.	3/1/2001
Bolton	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/15/2000
Bolton	Roof	Cellular phone and PCS radio antennas, stay within designated space, DO NOT STAND IN FRONT OF OR IN PROXIMITY OF RADIO TRANSMITTERS.	Restricted Area	See comment.	Radio Frequency Exposure	Coordination with PPS and cellular phone companies.	4/5/2001

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Business Administration Building	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/15/2000
Business Administration Building	Outdoor ventilation well	Ventilation wells (pits under air intake grills)	C7 Reclassification Hazard Eliminated	2WC OR SN	Fall potential	use ladder, barricade opening	1/15/2000
Business Administration Building	Outdoor well for generator	Ventilation well for generator room.	C4 PERMIT SPACE	A, LOTO for Emergency Generator, SN OR 2WC	Carbon monoxide (CO) from generator.	Possible CO hazard from generator exhaust. MAY RECLASS AS C7 IF LOTO GENERATOR.	1/14/2000
Business Administration Building	Exterior	Water Meter Pit	C5 Alternate Entry-Ventilate or C7 if documentaiton exists	2WC OR SN, A, BL, ladder or retrieval system	air quality, low O2	Pit located northwest side of building near standpipe. Pit size not determined.	ND
Chapman Hall	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/15/2000
Chemistry	B35	Utility (pipe) chase running under north tower. Length of space unknown.	See Comments	2WC, A, SN	See Comments	Space requires investigation of potential hazards prior to entry.	4/17/2000
Chemistry	B170A	Equipment rooms hard to get to, to get out of, or with only one way out	HAZARDOUS SPACE	2WC	Remote Location	CO2 EXTINGUISHING SYSTEM	
Chemistry	B70A	Flammable Liquid Storage Vault	HAZARDOUS SPACE	Contact Bob Grieshaber x4576 for access. HWP	Fire, Toxic	CO2 EXTINGUISHING SYSTEM	2/1/2000
Chemistry	B70B	Hazardous Material Storage Vault	HAZARDOUS SPACE	Contact Bob Grieshaber x4576 for access. HWP	Fire, Toxic, Compressed Gas	CO2 EXTINGUISHING SYSTEM	2/1/2000

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Chemistry	B70C	Hazardous Material Storage Vault	HAZARDOUS SPACE	Contact Bob Grieshaber x4576 for access. HWP	Fire, Toxic	CO2 EXTINGUISHING SYSTEM	2/1/2000
Chemistry	B70D	Hazardous Material Storage Vault	HAZARDOUS SPACE	Contact Bob Grieshaber x4576 for access. HWP	Corrosive (Acid and Caustics), Fire, Toxic	CO2 EXTINGUISHING SYSTEM	2/1/2000
Chemistry	B70E	Hazardous Material Storage Vault	HAZARDOUS SPACE	Contact Bob Grieshaber x4576 for access. HWP	Corrosive (Acid and Caustics), Fire, Toxic	CO2 EXTINGUISHING SYSTEM	2/1/2000
Chemistry	Elevator Pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/15/2000
Chemistry	Outdoors	Acid Neutralization Pit	C4 Permit Space	A, ERS, SA, P, R, 2WC, SPPE, PAV,	Toxic, O2, Fire, sewer gas	Air monitor and ventilate for non-entry maintenance work. For entry: air monitoring and ventilate, LOTO, ladder or retrieval, evacuate water before entry. See EHSRM for more information.	1/14/2000
Chemistry (east side of building)	Outdoors	Intake ventilation wells (pits under air intake grills)		A, 2WC*, SA, ERS, FP	Fall	Use ladder to enter	
Chemistry (west side of building)	Outdoors	Ventilation wells (pits under air intake grills)	C7 Reclassification Hazard Eliminated	2WC OR SN	Fall potential	use ladder, barricade opening	1/15/2000
Chemistry	848	Fume Hood Exhaust Ductwork in 848	C7 Reclassification Hazard Eliminated	Tyvec, gloves and respiratory protection for dusty work	Area adjacent to North Tower Fume Hood Exhaust System.	DO NOT ENTER. CONTACT BUILDING MANAGER TO SCHEDULE ANY MAINTENANCE OR SHUT DOWN OF SYSTEM. See EHSRM for more information and PPE determination. Precautions necessary dependent on the type of work.	12/16/2003

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type							
Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Chemistry North Tower Roof: Fume Hood Fan Room (a.k.a. "The Gas Chamber")	Roof -- Room 920	Fume Hood Exhaust Plenum	C4 Permit Space	Do not enter. Specialized precautions required for inspection and maintenance. See Comments.	Effluent from fumehoods	DO NOT ENTER. CONTACT BUILDING MANAGER TO SCHEDULE ANY MAINTENANCE OR SHUT DOWN OF SYSTEM. See EHSRM for more information and PPE determination. Precautions necessary dependent on the type of work.	10/4/2001
Chemistry: North Tower	Roof, North	roof top with unusual hazard(s)	SPECIAL CASE	See comments	Area adjacent to North Tower Fume Hood Exhaust System.	Avoid exhaust air from North Tower Fume Hood Exhaust Stacks. <i>Also see precautions necessary for work involving fume hood exhaust fan room.</i> CONTACT BUILDING MANAGER FOR ALL MAINTENANCE AND IF LOTO REQUIRED.	10/4/2001
Chemistry: South Tower	Roof, South	roof top with unusual hazard(s)	SPECIAL CASE	See comments	Chemical Fume Hood Exhaust and exhaust from chemical storage vaults	Avoid exhaust air. Avoid contact with suspect chemical residual. NOTIFY BUILDING MANAGER BEFORE SERVICING EQUIPMENT. Contact EHSRM for PERSONAL PROTECTIVE EQUIPMENT determination.	10/4/2001
Cunningham	B97A	Ventilation well for B97A generator room.	C4 PERMIT SPACE	A, LOTO Emergency Generator, BL	Carbon monoxide (CO)	Possible CO hazard from generator exhaust. MAY RECLASS AS C7 IF LOTO GENERATOR.	2/1/2000
Cunningham	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000

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Cunningham	Outdoors	Ventilation wells (pits under air intake grills)	C7 Reclassification Hazard Eliminated	2WC OR SN	Fall potential	use ladder (some accessible from inside)	1/15/2000
Curtin	B50 Vertical Chases	Utility Chase (vertical chase)		2WC	Fall hazard	Requires further review; also check lavatory chase entry procedures.	2/17/2000
Curtin	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Electric Pits (see print for locations)	Outdoors	electric pits	C5 Alternate Entry-Ventilate	A, BL, Wear harness	Electrocution, sewer gas.		1/14/2000
Elevator pits	Campus-wide	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN, LOTO	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/3/2008
EMS	WB65	research tanks	C5 Alternate Entry-Ventilate	BL, 2WC, A FOR MERCURY IF MERCURY CONTAMINATION IS SUSPECTED.	mercury once found in tank due to equipment breakage.	EMS research project, requires assessment by EMS / Univ. Safety and Assurances.	2/17/2000
EMS	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
EMS	GARAGE	Crawl space above suspended plaster ceiling of upper level	C7 Reclassification Hazard Eliminated	2WC OR SN	--	SPACE MAY REQUIRE RECLASSIFICATION FOR NON ROUTINE OPERATIONS.	2/1/2000

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Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Enderis	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Enderis	Outdoors	Ventilation wells (pits under air intake grills)	ENCLOSED SPACE			Accessible from inside building, through a door.	1/14/2000
Enderis	Utility Chases for Lavatories	Utility chase for lavatories on most floors.	ENCLOSED SPACE	SN	Remote location, configuration hazard.	Space accessible through access door.	1/21/2000
Engelmann Lecture Hall (need ladder to enter)	--	Equipment rooms hard to get to, to get out of, or with only one way out	OTHER: FALL HAZARD	FALL PROTECTION	FALL	Use ladder to enter. FOLLOW WRITTEN FALL PROTECTION PROCEDURES, SEE DAN WALKER FOR DETAILS.	2/17/2000
Englemann	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer gas, Asphyxiation	Follow elevator pit entry procedures and LOTO	1/14/2000
Englemann B96	B96	HVAC unit for rifle range.	The HVAC is a C4 Permit Required Space . The rifle range is a restricted area ; access is limited to authorized UWM personnel.	A for lead, R, SPPE, P	Toxic (lead dust)	The Rifle Range is a restricted area to authorized UWM personnel only. Please discuss necessary work precautions and exposure control practices with EHSRM. Special PPE and work practices may be required for HVAC filter change or other maintenance.	2/11/2002
Field Station	--	Field Station has not been surveyed for confined spaces. Site may have a septic tank (a C4 space if one exists).	--	--	--	Septic tank, if one exists, would be a permit confined space.	Phase I Survey on 1/23/2002

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Garland	Attic	Attic	REMOTE LOCATION	2WC OR SN		REMOTE LOCATION	2/1/2000
Garland	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
GENERIC SPACE: HVAC ductwork that has to be entered in various locations on campus	campus-wide	various duct work meeting confined space definition	TO BE DETERMINED	2WC, HWP?	case by case basis (this area needs to be expanded upon)	SPACES REQUIRE CERTIFICATION	--
Great Lakes Research Facility (GLRF)	194	Hazardous Waste Facility		Contact Don Szmania for access.	Fire, Toxic, Radioactive		1/14/2000
Great Lakes Research Facility (GLRF)	Lower Main Roof	roof top with unusual hazard(s)	SPECIAL CASE	Contact Sharron Daly, x4275, Radiation Safety Officer	Chemical Fume Hood Exhaust, Radioactive Fume Hood Exhaust	Notify building manager before shutting off fume hood exhaust fans.	1/14/2000
Great Lakes Research Facility (GLRF)	West End OF BUILDING	OVERHEAD CLAY STORAGE SILOS	C4 PERMIT SPACE	2WC, FP A, P, SA, ERS	Engulfment, Fall	PERMIT REQUIRED CONFINED SPACE.	2/1/2000
Great Lakes Research Facility (GLRF)	Elevator Pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/15/2000

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Greene Hall	--	building not surveyed	--	--	--	--	--
Greene Museum	--	building not surveyed	--	--	--	--	--
Hefter Conference Center	ATTIC	ATTIC	OTHER: REMOTE LOCATION	2WC OR SN	REMOTE LOCATION	--	2/172000
HOLTON	BASEMENT	BASEMENT, INCLUDING G57	ASBESTOS REGULATED AREA	PROTECTIVE CLOTHING, RESP. PROTECTION MAY BE NEEDED, AIR MONITORING.	asbestos debris	THIS IS AN ASBESTOS REGULATED AREA. Contact EHSRM for special work practices due to asbestos debris.	2/1/2000
HOLTON	G57	basement crawl space	C5 FOR MAINTENANCE, C7 FOR INSPECTION	TYVEK ?	DUST, SKIN CONTAMINATION FROM SOIL	asbestos abatement July 2003, protective clothing and air monitoring using the multi-gas detector required at a minimum.	9/30/2004
HOLTON	ROOM	roof		2WC, FP	fall hazard due to steep pitch roof	SEE DAN WALKER	2/17/2000
HVAC Units in Campus Buildings with little or no lighting	campus-wide	HVAC units with little or no lighting	REMOTE LOCATION	2WC or SA, FLASHLIGHT	remote location		
Johnston	attic	attic is a remote locatior	Enclosed Space	2WC OR SN	remote location	--	1/14/2000

<p style="text-align: center;">OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:</p>							
Building:	Room Number:	Description of Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:	
Kenilworth Square Apartments (west building)	--	The west building has not been surveyed for confined spaces. This building is managed by Auxilliary Services. See elevator pit generic space for XYZ elevators.	--	--	--	1/8/2008	
Kenilworth Square East	--	NOTE: The Kenilworth Building underwent extensive renovation in 2005-2006. Not all confined spaces may have been identified at time of this printing.	--	--	--	01/08/08	
Kenilworth Square East	X,Y elevator pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Kenilworth Square East	exterior	Ventilation well adjacent to electrical service room and generator, under sidewalk on Kenilworth Ave.	C7 Reclassification Hazard Eliminated	2WC OR SN	Fall potential, 13.5 foot depth.	use ladder or fall protection, barricade opening	3/1/2007
Kenilworth Square East	crawl space						
Kenilworth Square East	under building	Service Tunnel(s): the main north-south tunnel was not abandoned during renovation. Access to this tunnel is still available through the crawl space under the walkway.	HAZARDOUS SPACE	2WC OR SN, A, VENTILATION RECOMMENDED	remote location, sewer gas	Old Data: Significant asbestos abatement in this space Winter 2001. Oil / soil remediation was undertaken as part of UST removal.	6/11/2007
Clotsche	G10	pool lamping chase	enclosed space	2WC OR SN	irritating chemicals	RECLASS MAY BE NECESSARY FOR NON-ROUTINE WORK PROCEDURES.	2/1/2000
Clotsche	G10	pool equipment room tanks and sump pits	C5 Alternate Entry-Ventilate	A, BLOWER, 2WC OR SN	irritating chemicals	RECLASS MAY BE NECESSARY FOR NON-ROUTINE WORK PROCEDURES. CERTIFICATION REQUIRED FOR EACH SPACE.	2/1/2000
Clotsche	128	Pool	ENCLOSED SPACE	2WC OR SN, FP low lying space which could accumulate heavier than-air gases.	fall hazards, standing water	RECLASS MAY BE NECESSARY FOR NON-ROUTINE WORK PROCEDURES.	

**OSHA C7
ReClass, C5
Alternate Entry,
C4 Permit Space
or Other Type
Space:**

Building:	Room Number:	Description of Space:	OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Klotsche	elevator pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Klotsche	exterior	Water Meter Pit	C5 Alternate Entry-Ventilate or C7 if documentaiton exists	2WC OR SN, A, BL, ladder or retrieval system	air quality, low O2	need to investigate pit (as of 1/2/2008)	see comment
Kunkle	outdoors	light wells	SPECIAL	2WC*, SA, FP ERS,	fall hazards	--	--
Kunkle	Pit B	Condensate Pit	SEE COMMENT	A, SA, ERS, 2WC*, FP	Heat Stress?	REQUIRES CERTIFICATION	--
Laboratories and Studios:	campus wide	laboratories or studios using hazardous chemicals or processes.	SPECIAL CASE	contact principle investigator or building chairperson for entry or for any utility shutoffs	Various chemicals: Flammable, corrosive, toxic, oxidizer, carcinogen, reactive, radioactive, biohazard, physical hazards, heat, laser, sharps.	communicate any hazards to be added by work. Contact EHSRM for further information. CONTACT BUILDING MANAGER FOR LOTO OR SCHEDULING.	2/1/2000
Lake Water Pumping Station	building-wide	lake water pump basins	C4 PERMIT SPACE	See Power Plant superintendent and Heat Plant confined space entry program	low O2, drowning, fall protection, LOTO, GFCl, etc.	C4 PERMIT SPACE	2/1/2000
Lapham	318	Hazardous Waste Facility	Enclosed Space	HWP.	Fire, Toxic, Corrosive, Reactive	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	318B	Hazardous Waste Storage Vault	Enclosed Space	HWP.	Toxic	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	318C	Hazardous Waste Storage Vault	Enclosed Space	HWP.	Toxic, Corrosive (acid), Oxidizer, Reactive, Mercury	Contact Bob Grieshaber x4576 for access.	1/14/2000

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Lapham	318D	Hazardous Waste Storage Vault	Enclosed Space	HWP.	Toxic, Flammable, Reactive	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	318E	Hazardous Waste Storage Vault	Enclosed Space	HWP.	Toxic, Corrosive (caustic), Lead	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	530	Fume Hood Exhaust Plenum: North Plenum	C4 Permit	Do not enter when unit is in operation. Special requirements otherwise.	Toxic	Contact EHS&RM for further information.	1/14/2000
Lapham	530	Fume Hood Exhaust Plenum: South Plenum	C4 Permit	Do not enter when unit is in operation. Special requirements otherwise.	Toxic	Contact EHS&RM for further information.	1/14/2000
Lapham	530	HVAC SUPPLY AIR FAN PLENUMS	HAZARDOUS SPACE	LOTO, SN	LOTO NECESSARY	MECHANICAL HAZARD DUE TO AXIAL VANE FANS. CONTACT BUILDING MANAGER FOR SYSTEM SHUT-DOWN SCHEDULING	2/1/2000
Lapham	B8A	Flammable Liquid Storage Vault / Hazardous Material Storage Vault	Enclosed Space	HWP.	Toxic, Flammable, Reactive	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	B8B	Asbestos and Compressed Gas Storage Vault	Enclosed Space	HWP.	Asbestos, Compressed Gas	Contact Bob Grieshaber x4576 for access.	1/14/2000
Lapham	B8C	Chemical Storage Vault	Enclosed Space	HWP.	Toxic, Flammable, Reactive	Contact Steve Heidt, x5688, for access.	1/14/2000
Lapham	Elevator Pits: XX, YY, X, Y, Z	Low lying space which could accumulate heavier-than- air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Lapham	Outdoors	Acid Neutralization Pits south of south tower	C4 Permit	A, ERS, SA, P, R, 2WC, SPPE, BL	Toxic, O2, Flammable, sewer gas	units pumped out and filled with new limestone 3/2007. Pits are 16 feet depth.	3/19/2007
Lapham	Outdoors, north of north tower	light wells adjacent of offices	Enclosed Space				1/14/2000
Lapham	B34	Flume Laboratory: Water Accumulation Pit	C5 Alternate Entry- Ventilate	A, 2WC OR SN	Electrocution, Drowning	Type 1 Space.	2/1/2000

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Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Lapham	B45	Acid Neutralization Pit	C4 Permit Space	A, 2WC OR SN, SPPE, PAV	Toxic, LOW O2, sewer gas, drowning	Ventilate for non-entry maintenance work. For entry: air monitoring and ventilate, LOTO, ladder or retrieval, evacuate water before entry. See EHSRM for more information.	3/23/2007
Lapham	B51A	Acid Neutralization Pit	C4 Permit Space	A, 2WC OR SN, SPPE, PAV	Toxic, LOW O2, sewer gas, drowning	Air monitor and ventilate for non-entry maintenance work. For entry: air monitoring and ventilate, LOTO, ladder or retrieval, evacuate water before entry. See EHSRM for more information.	2/26/2002
Lapham	Outdoors, north of north tower	Ventilation wells (pits under air exhaust grills for chemical storage vaults)	C5 Alternate Entry- Ventilate or C7 Reclass if fans off	P (Do not enter when vault exhaust in operation), SN	Toxic (exhaust from vaults), FALL HAZARD.	CONTACT EHSRM AND BUILDING MANAGER TO SCHEDULE. Use ladder to enter	2/1/2000
Lapham	Roof: new Lapham	roof top with unusual hazard(s)	SPECIAL CASE		Chemical Fume Hood Exhaust	Avoid exhaust air. Avoid contact with suspect chemical residual. CONTACT BUILDING MANAGER FOR ALL MAINTENANCE AND IF LOTO REQUIRED. Contact EHSRM for PPE determination.	10/4/2001
Lapham	Roof above 530	roof top with unusual hazard(s)	SPECIAL CASE	FP	Chemical Fume Hood Exhaust, Fall Hazard due to sloped roof	Avoid exhaust air.	1/14/2000
Lapham	Roof around 531	roof top with unusual hazard(s)	SPECIAL CASE	Contact Sharron Daly, x4275, Radiation Safety Officer. See comments.	Chemical Fume Hood Exhaust, Radioactive Fume Hood Exhaust	Avoid exhaust air. Avoid contact with suspect chemical residual. CONTACT BUILDING MANAGER FOR ALL MAINTENANCE AND IF LOTO REQUIRED. Contact EHSRM for PPE determination.	1/14/2000

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:							
Building:	Room Number:	Description of Space:	OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Lapham	Roof: north tower	roof top with unusual hazard(s)	SPECIAL CASE	Contact Sharron Daly, x4275, Radiation Safety Officer. See comments.	Chemical Fume Hood Exhaust, Radioactive Fume Hood Exhaust	Avoid exhaust air. Avoid contact with suspect chemical residual. CONTACT BUILDING MANAGER FOR ALL MAINTENANCE AND IF LOTO REQUIRED. Contact EHSRM for PPE determination.	10/4/2001
Lapham	Roof: south tower	roof top with unusual hazard(s)	SPECIAL CASE	See comments.	Chemical Fume Hood Exhaust	Avoid exhaust air. Avoid contact with suspect chemical residual. All new mechanical systems installed 2001 during building renovation. NOTE: This roof requires evaluation after UWM takes possession of building from DFD.	10/4/2001
Library	EB58C	HVAC Plenum		2WC, HWP?	Fire (dust?)		
Library	Elevator Pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Library, reflecting pool chemical room	WB02	Pool pump room	C7 ENCLOSED SPACE	2WC*, SA, FP, ERS, A	chemical contamination (???)	REQUIRES CERTIFICATION	2/1/2000
Library	WB26	HVAC LABYRINTH	C7 ENCLOSED SPACE	2WC OR SN, FL	--	RECLASS NECESSARY FOR NON-ROUTINE OPERATIONS	2/1/2007
Mellencamp	B48	HVAC SUPPLY AIR PLENUM (or Supply Tunnel)	ENCLOSED SPACE	2WC OR SN, FL	remote location, extensive asbestos application	NOTE: EXTENSIVE ASBESTOS THERMAL SYSTEM INSULATION IN THIS SPACE, CONTACT EHSRM FOR ADDITIONAL INFORMATION	2/1/2000
Mellencamp	B48	HVAC RETURN AIR PLENUM (or Return Tunnel)	ENCLOSED SPACE	2WC OR SN, FL	remote location	CONTACT EHSRM FOR ADDITIONAL INFORMATION	2/1/2000

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:							
Building:	Room Number:	Description of Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:	
Mellencamp	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Merrill	roof	roof top with unusual hazard(s)	SPECIAL AREA	2WC, FP	FALL HAZARD	USE FALL PROTECTION	--
Meter Pits-generic	na	see specific building-location for additional information	C5 Alternate Entry-Ventilate or C7 if hazard assessment documentaiton exists	hazard assessment, 2WC OR SN, A, BL, GFCI, ladder or retrieval system	potential hazards include air quality (low O2, sewer-soil gas, CO, etc.), electrical hazards, self-retrieval issues, etc.		1/3/2008
Mitchell	roof of north wing	scuttle space for steam line running north/south along west exterior wall	C4 PERMIT SPACE AND ASBESTOS REGULATED AREA	A, 2WC, R, SPPE, HH, Flashlight, LOTO	asbestos debris	Do not enter without asbestos certification. Do not enter without LOTO of steam line. ASBESTOS REGULATED AREA.	2/1/2000
Mitchell	NORTH ATTIC	ATTIC SPACES IN CENTER OF ATTIC.	REMOTE AREA	2WC OR SN, flashlight	2WC OR SN	REMOTE LOCATION, BEWARE OF SKYLIGHT OPENINGS AND RETURN AIR PLENUM OPENINGS IN FLOOR.	2/1/2000
Mitchell	SOUTH ATTIC	ATTIC SPACES IN CENTER OF ATTIC.	REMOTE AREA	2WC OR SN, flashlight	2WC OR SN	REMOTE LOCATION,	2/1/2000
Mitchell	B1B	North access of utility chase above northwing basement hallway is an OSHA C7 confined space. North access is in B1. Main issues are severe obstructions and limited maneuverability in this space. Emergency retrieval procedures required for any work beyond chase openings.	C7 Reclassification Hazard Eliminated	2wc, flashlight, head protection, appropriate clothing	severe space limitations and obstructions, must maneuver around electrical conduit, sharp edges of sheet metal and wire lath.	Chase partially inspected for asbestos 1/2000. Report any suspect debris or damaged insulation.	1/14/2005

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type							
Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Mitchell	B1B	South access of utility chase above northwing basement hallway is an OSHA C7 confined space, from south access doors north to the first obstruction. South access is near room B22. Severe obstructions and limited maneuverability past first obstruction emergency retrieval procedures.	C7 Reclassification Hazard Eliminated	2wc, flashlight, head protection	limited space and obstructions, must maneuver around electrical conduit, sharp edges of sheet metal and wire lath.	Asbestos debris cleaned in vicinity of south access doors, south of first obstruction. O&M performed 1/2005.	1/14/2005
Mitchell	B8B	Flammable Liquid Storage Vault	HAZARDOUS SPACE	HWP	Fire	Contact Dennis Greenwood for access. CO2 EXTINGUISHING SYSTEM	
Mitchell	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer gas, Asphyxiation	Follow elevator pit entry procedures and LOTO	1/14/2000
Music	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer gas, Asphyxiation	Follow elevator pit entry procedures and LOTO	1/14/2000
Music	MB80C	chase from MB80C Elevator Shop Office below Recital Hall Lobby, chase for lobby radiator take-offs	C7 Reclassification Hazards eliminated	2WC or SN	Horizontal entry	Abatement of fittings apparently done on June 14, 2002 during lobby renovation	6/14/2002
Norris	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Norris	B30	Low lying space. SEE COMMENT SECTION.	ENCLOSED SPACE	2WC OR SN	FALL HAZARD	USE CAUTION WHEN OPENING DOOR, FALL HAZARD.	2/1/2000
North Building	--	BUILDING NOT SURVEYED, NOT AWARE OF ANY CONFINED SPACES.	--	--	--	--	--

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:							
Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Pearse	attic	attic	REMOTE LOCATION	2WC OR SN	--	--	2/1/2000
Pearse	roof	roof top	SPECIAL CASE	2WC, FP	--	--	2/1/2000
Physics	155	Loading Dock: Liquid Nitrogen Dispensing Area	SPECIAL CASE	Keep away when Liquid Nitrogen dewars are being filled, unless authorized	Asphyxiation, frostbite	Follow posted safety precautions when dispensing liquid nitrogen	2/1/2000
Physics	Elevator Pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer gas, Asphyxiation	Follow elevator pit entry procedures and LOTO	1/14/2000
Physics	outdoors	Ventilation wells (pits under air intake grills)	C7 Reclassification Hazard Eliminated	A, 2WC OR SN, BARRICADE	--	RECLASS MAY BE NECESSARY FOR NON ROUTINE PROCEDURES.	2/1/2000
Power Plant	plantwide	various	C4 PERMIT OR OTHERWISE DESIGNATED	See plant superintendent and Power Plant's Confined Space Entry Program	various	ALL PERSONNEL MUST FOLLOW POWER PLANT CONFINED SPACE ENTRY PROCEDURES. CONTRACTORS MUST HAVE OWN CONFINED SPACE PROCEDURES, IN ADDITION TO FOLLOWING POWER PLANT RULES.	2/1/2000
Power distribution system (electrical) pits	outdoors	underground pits	C5 Alternate Entry-Ventilate	A, 2WC* OR SN, BLOWER, BARRICADE	high voltage	SPACE MAY REQUIRE RECLASSIFICATION FOR NON ROUTINE OPERATIONS.	2/1/2000

**OSHA C7
ReClass, C5
Alternate Entry,
C4 Permit Space
or Other Type
Space:**

Building:	Room Number:	Description of Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Purin Hall	--	NO KNOWN CONFINED SPACES.	--	--	--	2/1/2000
Riverview Residence Hall	--	Built 2007-2008. This building has not been surveyed for confined spaces. This building managed by UWM Auxillary Services. See generic elevator pit precautions.	--	--	--	1/3/2008
Rooftops	campus-wide	roof top with unusual hazard(s)	SPECIAL CASE	2WC OR SN, FP	remote location, falls	General fall protection measures for work on roofs not having standard rails or parapet. CONTACT DAN WALKER FOR FALL PROTECTION REQUIREMENTS. 2/1/2000
Sabin	attic	attic		2WC	remote space	
Sabin	basement	Basement (unusual configuration - can not stand up over half of space)		2WC, PPE, HH	remote space, head bumps.	
Sabin	Elevator pit	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO 1/14/2000
Sandburg	--	Spaces to be determined		--	--	--
Sandburg	GARAGE	CRAWL SPACE ABOVE SUSPENDED PLASTER CEILING ON UPPER LEVEL	C7 Reclassification Hazard Eliminated	2WC OR SN	--	SPACE MAY REQUIRE RECLASSIFICATION FOR NON ROUTINE OPERATIONS. 2/1/2000
Sandburg	GARBAGE CHUTES IN TOWERS	TOWER GARBAGE CHUTES	C4 PERMIT SPACE	A, ERS, FP, HH, SPPE, LOTO, PERMIT	FALL HAZARD	DO NOT ENTER, PERMIT REQUIRED C4 SPACE 2/1/2000

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type							
Building:	Room Number:	Description of Space:	Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Sandburg	Elevator pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
Signal cable manhole system	outdoors	underground pits	C5 Alternate Entry-Ventilate	A, 2WC* OR SN, BLOWER, BARRICADE	high voltage	SPACE MAY REQUIRE RECLASSIFICATION FOR NON ROUTINE OPERATIONS.	2/1/2000
Steam Pit, generic entry (except pit #6)	--	Steam pits (except #6)	C5 Alternate Entry-Ventilate or See comments	A, 2WC* OR SN, BLOWER, BARRICADE. PPE and R may be necessary (see comments).	Heat Stress Hazard if high temperature and/or humidity conditions.	See web page on frequently asked questions about steam pit entry. All pits except #6 abated in mid 1980s. Use fall protection and emergency retrieval system as necessary or if blower can not be used. Blower may cause fiberglass disturbance, respiratory protection may be necessary.	10/4/2001
Steam Pit 1							
Steam Pit 2		shallow pit		A, 2WC and SN, and harness	Heat Stress Hazard if high temperature and/or humidity conditions.	Pit #2 is a shallow pit. Wear harness. Emergency retrieval should be available if needed.	9/6/2002
Steam Pit 4		shallow pit	C5 Alternate Entry-Ventilate or See comments	A, 2WC* OR SN, BLOWER, BARRICADE. PPE and R may be necessary (see comments).	Heat Stress Hazard if high temperature and/or humidity conditions.	Pit #2 is a shallow pit. Wear harness. Emergency retrieval should be available if needed. Pit #2 was cleaned of fiberglass debris in August 2002.	9/6/2002
STEAM PIT #6	1	STEAM PIT #6	ASBESTOS REGULATED AREA, C4 PERMIT REQUIRED SPACE	A, 2WC AND SN, ERS, PPE	Possible asbestos contamination.	DO NOT USE BLOWER DUE TO POSSIBLE ASBESTOS CONTAMINATION.	2/1/2000

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Building:	Room Number:	Description of Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:	
Steam Pit #11		deep pit with narrow entrance		A, 2WC AND SN, ERS, PPS, PPE heat	Pit #11 was cleaned of fiberglass debris in August 2002. East opening requires closure since block insulation is ACM.	Aug-02	
Stormwater Catch Basins	outdoors	stormwater catch basin	SEE COMMENT	A, 2WC*, SA, ERS, FP, BL Sewer gas	DO CERTIFICATION FOR EACH SPACE. WILL LIKELY BE C5 ALTERNATE ENTRY OR C4 PERMIT SPACES	2/14/2000	
Sump Pits	MOST BUILDINGS	Sump Pit	SEE COMMENT	A, 2WC*, SA, ERS, FP, BL Sewer gas	DO CERTIFICATION FOR EACH SPACE. WILL LIKELY BE C5 ALTERNATE ENTRY OR C4 PERMIT SPACES	2/14/2000	
Theatre	T90	Scenery Shop Flat Drop Pit / Sump Pump Pit	C4 PERMIT SPACE	A, 2WC, ERS, SA, BL Sewer gas, paint vapors, other ?	DO NOT ENTER. BARRICADE OPENING.	1/14/2000	
Tunnel	--	Utility tunnel during normal conditions	See OSHA Interpretation on utility tunnels	Periodic Air monitoring, SN, Flashlight	--	Periodic air monitoring recommended	10/4/2001
Tunnel	--	Utility tunnel during chilled water system filling and venting	See OSHA Interpretation on utility tunnels. See Comments.	A, 2WC, SN, Flashlight	--	Air monitoring required during venting of chilled water system to determine presence of low % oxygen, methane, carbon monoxide.	10/4/2001
Tunnel	--	Utility tunnel during maintenance by UWM or contractors.	See OSHA Interpretation on utility tunnels. See Comments.	A, 2WC, SN, Flashlight. See Comments	Hazard analysis required.	Maintenance work in tunnel requires hazard analysis and emergency response planning.	10/4/2001
Union		to be determined			--		

OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:							
Building:	Room Number:	Description of Space:	OSHA C7 ReClass, C5 Alternate Entry, C4 Permit Space or Other Type Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
Union	Elevator pits	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/14/2000
University Center for Continuing Education	--	SEE COMMENTS	--	--	--	SURVEY AND CERTIFICATION REQUIRED. Facility located at 161 W. Wisconsin Avenue. Scheduled to Open Fall, 1995.	--
University Services Building (USB)	--	with the possible exception of the elevator pit, we do not believe Zelazo has any confined spaces. Some spaces (e.g., theatre loft) may be out-of-the-way locations where 2 way communication or supervisor notification is warranted.	--	--	--	--	1/3/2008
University Services Building (USB)	X	Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/3/2008
Vogel	attic	attic	REMOTE LOCATION	2WC OR SN	--	--	2/1/2000
Zelazo Center for the Performing Arts	--	we do not believe Zelazo has any confined spaces. Some spaces (e.g., theatre loft) may be out-of-the-way locations where 2 way communication or supervisor notification is warranted.	--	--	--	--	1/3/2008
Zelazo Center for the Performing Arts		Low lying space which could accumulate heavier-than-air gases, which could asphyxiate or harm a worker.	C7 Reclassification Hazard Eliminated	A, 2WC OR SN	Sewer-soil gas if any floor drains or sumps.	Follow elevator pit entry procedures and LOTO	1/3/2008

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ReClass, C5
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Building:	Room Number:	Description of Space:	Precautions Needed:	Special Hazards:	Comments:	Date Reviewed:
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NOTES (OLD TERMINOLOGY):

- *See full text of DILHR 32 Sub-Chapter VI for confined space rules.
- *See UWM Confined Space Policy and SOPs for each location for detailed procedures (This work is in progress).
- *See UWM Respirator Protection Program for work involving respirators.
- *Contact Environmental Health, Safety, and Risk Management (x6339) for air monitoring assistance.

DILHR 32 Sub. chapter VI Confined Space Definitions (see full text of DILHR 32 Sub-Chapter VI for entire confined space rules):

"An environment which by design or construction has limited openings for entry and egress, has unfavorable natural ventilation, could reasonably be believed by the employer to have dangerous air contaminants or contains materials which may produce dangerous contaminants and is not intended for continuous human occupancy. Confined spaces include, but are not limited to , storage tanks, compartments of ships, process vessels, pits, silos, vats, degreasers, reaction vessels, boilers, ventilation and exhaust ducts, manholes, sewer, tunnels, underground utility vaults, and pipelines.

Spaces shall be classified as Level I or Level 2:

Level 1: A "Level 1" space shall be a confined space with an atmosphere within the limits specified in Sub-chapter (1) and the only source of contamination expected or likely to affect the atmosphere is the employe's presence or the employe's activities.

Level 2: A "Level 2" space shall be a confined space with an atmosphere which falls within one of the following conditions: 1) The air quality is within the limits specified in subchapter (1); and the confined spce contains sources of contamination other than the employe or the employe's activities, which may affect the atmosphere; or 2) the air quality is not within any of the limits specified in subchapter (1).

UWM Hazardous Space: Definition to be determined based on applicable hazards.

Subchapter (1) Summary:

- a.) an oxygen content of 19.5% but not more than 23.5%;
- b.) a hydrogen sulfide content of less than 10 ppm or a carbon monoxide content of less than 35 ppm;
- c.) a combustible gas content less than 10% of the lower explosive limit; and
- d.) an exposure level (assessment) for any hazardous substance determined to be present (see rule for full text).

Communications:

* 2WC is not necessary if the confined space is configured so that the safety watch can maintain easy voice communication with entrant at all times.