

Safety
PERMIT-REQUIRED CONFINED SPACE ENTRY PROGRAM

HISTORY. This is the first printing of this regulation.

SUMMARY. This regulation provides detailed guidance and outlines specific safety requirements for units and activities to follow when conducting operations in confined spaces. Guidelines established in this regulation are mandated by the Code of Federal Regulations (CFR).

APPLICABILITY. Procedures established in this regulation are applicable to military and civilian personnel assigned to or supported by III Corps and Fort Hood, National Guard and Reserve units, and Department of Defense contractors conducting training operations in confined spaces on Fort Hood.

SUPPLEMENTATION. Local supplementation of this regulation is not authorized without approval from the Assistant Chief of Staff (ACofS), G1, Safety Office.

CHANGES. Changes to this regulation are not official unless authenticated by the Directorate of Information Management, AFZF-IM-ISD-SBP.

SUGGESTED IMPROVEMENTS. The proponent for this regulation is the ACofS, G1, Safety Office. Users are invited to send comments and suggested improvements to the Commander, III Corps and Fort Hood, ATTN: AFZF-GA-SAFE-G, Fort Hood, Texas 76544-5056.

GENERAL

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Purpose	This regulation prescribes responsibilities, policies, and procedures for conducting operations in confined spaces.	1a
Scope	This regulation applies to all sites where confined space entry is performed by military, Department of the Army civilians, or Department of Defense contractors at Fort Hood.	1b
Explanation of Abbreviations and Terms	Abbreviations and terms are explained in the glossary.	1c
References	29 CFR 1910.146, General Industry Standards 29 CFR 1910.120, General Industry Standards Fort Hood Regulation 385-5, Respiratory Protection Program.	1d

General

This regulation

- Establishes minimum requirements and procedures for the safety and health of personnel required to work in hazardous or potentially hazardous confined spaces, or in connection with work being performed in confined spaces.
 - a confined space must be further identified as either a "permit required confined space," or "non-permit required confined space" (see definitions).
- Establishes safety requirements for permit required confined spaces only (CFR 1910.146), and includes the requirement for issuing a permit for entry into confined spaces designated as permit-required confined spaces (permit spaces), which pose special dangers for entrants because their configurations are conducive to the creation of serious hazards such as toxic, explosive or asphyxiating atmospheres.
 - Commanders/activity directors must develop and implement a written permit space entry program, and train personnel if a workplace contains a permit-required confined space.
- If personnel will not enter any permit spaces, the organization must institute measures to preclude inadvertent entry by unauthorized individuals into those spaces.
 - Areas must be identified with a sign reading "DANGER--PERMIT REQUIRED CONFINED SPACE. DO NOT ENTER"
- Note: Routine entry and work performed in telecommunications vaults/workplaces etc., do not fall within the provisions of the 1910.146 standard of this regulation. Refer to CFR 1910.269 (e).

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Permit-
Required
Confined Space
Hazards

Permit-required confined space hazards are defined as

- Hazardous atmosphere
 - The air may not have enough oxygen (oxygen deficient atmosphere), or may have too much oxygen (oxygen enriched).
 - Flammable or toxic gases, fumes, vapors, etc.
- Engulfment by a liquid or solid material.
- Danger from unexpected movement of machinery.
- Electrocutation.
- Heat/cold stress.
- Becoming wedged into a narrow part of the space and suffocating.
- Physical dangers
 - falls, or
 - being struck by falling debris, objects, etc.
- Thermal or chemical burns.

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RESPONSIBILITIES2ACofS, G1
Safety
Office

The ACofS, G1, Safety Office will

- Assist organizations upon request, in the identification of permit-required confined spaces in their workplaces.
- Advise and assist organizations in the required training for personnel in the permit-required confined space entry program.
- Provide a central point of contact for the installation permit-required confined space program.
- Conduct safety inspections of permit-required confined space worksites.
- Provide initial training to organizations required to implement a written permit-required confined space program.
 - Organizations should provide personnel additional training specific to their worksite.
- Assist organizations with the development and review of their written worksite specific permit-required confined space program.
- Monitor compliance during regularly scheduled surveys and Standard Army Safety and Occupational Health Inspections.

2aChief,
Preventive
Medicine

The Chief, Preventive Medicine, US Army Medical Activity will

- Assist unit/activities with the identification, procurement, and proper use of personal protective equipment, and atmospheric test/monitoring equipment required for specific permit-required confined space hazards/operations.
- Present adequate training/instruction to augment the ACofS, G1, Safety Office Permit-Required Confined Space Safety Training Course with such topics as
 - the operation and use of atmospheric testing/monitoring equipment for confined space hazards, respiratory protection equipment, mechanical/forced air ventilation equipment/methods, maintenance requirements, and
 - selected preventive medicine/industrial hygiene topics related to permit-required confined space entry operations.
- Assist unit/activities in identification of permit-required confined spaces and the potential atmospheric hazards.
- Provide assistance to the III Corps and Fort Hood Safety Office and units/activities in the development and implementation of permit-required confined space entry programs where needed.

2b

Directorate of
Public Works
(DPW)

The DPW Fire, Emergency Service Management Branch will

- Provide appropriate emergency response for all permit-required confined space accidents.
- Serve as accident scene coordinator for all confined space accidents.
- Comply with emergency and rescue services required by paragraph *k* of 29 CFR 1910.146 to ensure each member of the confined space emergency rescue team is proficient recognizing and treating hazards associated with entering confined spaces, and responsibilities associated with properly performing rescue procedures.
- Present adequate training/instruction to augment the ACofS, G1, Safety Office Confined Space training course in emergency rescue procedures.

2c

Directorate of
Contracting

The Directorate of Contracting will

- Ensure requirements for work in permit-required confined spaces are included in all solicitations and contracts where such work will be required and ensure Contracting Officer Representatives are knowledgeable and aware of the requirements for permit-required confined space program operations. (Note: The III Corps and Fort Hood Safety Office will provide Contracting Officer Representatives guidance).
- Inform contractors performing work in permit required spaces
 - that the workplace contains permit-required confined spaces and entry is allowed only through compliance with a permit space program meeting Occupational Safety and Health Association requirements.
 - that a contractor's program, if one is in use, must be coordinated with the installation's program.
 - that they are responsible for conducting required training, performing occupational health surveillance, and providing personal protective equipment for their personnel.
 - Of the elements, including the hazards identified and the installation's experience with the space, which makes the space in question a permit space.
 - Of any precautions or procedures that have been implemented.
- Coordinate entry operations with the contractor when both installation and contractor personnel will be working in or near the space.
- Ensure that the contractor prepares a written entry plan describing how work will be accomplished and the safety measures that will be implemented.
 - A contractor may use their plan or the installation plan.

2d

Commanders/
Activity
Directors

Commanders/activity directors having areas requiring permit-required confined space work spaces will

- Develop and implement a comprehensive written permit-required confined space entry program including a list of all identified permit-required confined spaces at their worksites.

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Commanders/
Activity
Directors
(continued)

- Identify all workplace permit-required confined spaces and their hazard(s) (refer to Appendix A for assistance and guidance in identifying permit-required confined spaces).
- Appoint a qualified individual as unit/activity confined space coordinator and schedule individual to attend the Installation Permit-Required Confined Space Training Course presented by the ACofS, G1, Safety Office (287-3725).
- Provide additional worksite-specific training for personnel designated to work in confined space operations within their unit/activity, that is, supervisors, entrants, attendants, and rescue procedures, etc., to ensure they acquire and demonstrate the knowledge and skills necessary for safe performance of their duties.
 - Inhouse training provided by units/activities to their personnel must be approved, and will be monitored by the ACofS, G1, Safety Office (documentation of training will consist of a completed Fort Hood Form 1556, Request, Authorization, Agreements, Certification of Training and Reimbursement [Appendix B], and placed in the Official Personnel Record).
 - Ensure all personnel involved in permit-required confined space entry review this regulation annually and document the review as part of refresher training.
- Procure and provide all necessary personal protective equipment and rescue equipment, and ensure it is properly used and maintained (when work is performed by a contractor, ensure that the contractor provides all equipment stipulated by the contract).
 - equipment must be calibrated according to manufacturer's specifications, and personnel trained on how to operate the equipment efficiently.

Note: Equipment procured for explosive atmospheres must be intrinsically safe/explosion proof. Minimum equipment requirements are:

- Atmospheric testing and monitoring equipment.
- Ventilating equipment.
- Communications equipment.
- Personal protective equipment.
- Lighting equipment.
- Barriers and shields for the protection of pedestrians and vehicles.
- Entry and exit equipment.
- All other equipment required by the standard, that is, signs, retrieval systems (tripod, full body harness, etc.).
- Implement a permit-required confined space entry system and ensure entry permits are completed and issued for each job/operation (see Appendix C).

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**Commanders/
Activities
Directors
(continued)**

- A Material Safety Data Sheet of any hazardous chemical/material used in the operation will be made available at the confined space worksite.
- Coordinate with the DPW, Fire and Emergency Service Management Branch, for emergency rescue services.
 - If emergency rescue is required during permit-required confined space operation, the attendant must dial 911/117 to activate emergency service (from a 532 prefix telephone number, dial 911; from a 287 or 288 prefix telephone number, dial 117).
- Ensure that the permit-required confined space program is updated when a new permit-required confined space is identified, or program deficiencies are found to exist (1910.146 (d) (13)).
 - The plan must be reviewed within one year of any permit-required confined space entry 1910.146 (d) (14).
- Ensure the Contracting Officer Representative appointed to monitor contractor operations receives a preoperational briefing from the contractor delineating the Permit-Required Confined Space Program that is to be followed.
- Inform the Directorate of Contracting of any construction, maintenance, or service contracts that will involve entry into permit-required spaces.
 - Include safety requirements in contracts where appropriate.
- Retain each canceled entry permit for a period of one year to facilitate the review of the permit-required confined space program.

Entry supervisors (both military and civilian employees) will

- Be familiar with hazards that may be faced during entry, including information on the mode, signs, or symptoms of the exposure.
- Complete entry permit form and verify
 - that the appropriate entries have been made on required permits,
 - that all tests specified by the permit have been conducted,
 - that all procedures and equipment specified by the permit are in place before signing the permit and allowing entry to begin, and
 - Post atmospheric test results on the permit at not more than two hour intervals, or sooner if required.
- Terminate the entry and cancel the permit when entry operations covered by the permit have been completed or a condition not allowed under the entry permit arises in or near the permit space.
- Remove unauthorized individuals who attempt to enter the permit space during entry operations.
- Determine, whenever responsibility for a permit space entry operation is transferred and at intervals dictated by the hazards and operations performed within the space, that entry operations remain consistent with terms of the entry permit and that acceptable entry conditions are maintained.

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Commanders/
Activities
Directors
(continued)

NOTE: The entry supervisor can be an authorized entrant or attendant, and is not required to be on site.

Authorized entrants (both military and civilian employees) will

- Be familiar with the hazards they could face during entry, including information on the mode, signs or symptoms, and consequences of exposure.
- Use required provided equipment.
- Communicate with the attendant as necessary to enable the attendant to monitor entrant status, and to enable the attendant to alert entrants of the need to evacuate the space.
- Alert the attendant whenever the entrant recognizes any warning sign or symptom of exposure to a dangerous situation or the entrant detects a prohibited condition.
- Exit from the permit space as quickly as possible (self-rescue) whenever
 - An order to evacuate is given by the attendant or the entry supervisor.
 - The entrant recognizes any warning sign or symptom of exposure to a dangerous situation.
 - An evacuation alarm is activated.
- Attendants (both military and civilian employees) will
 - Perform no duties that might interfere with the attendant's primary duty to monitor and protect the authorized entrants.
 - Be familiar with the hazards that may be faced during entry, including information on the mode, signs, or symptoms, and consequences of the exposure.
 - Be aware of possible behavioral effects of hazard exposure in authorized entrants.
 - Maintain an accurate count of authorized entrants in the permit space and ensure that accurate means of identification for authorized entrants in permit spaces is used.
 - Remain outside the permit space during entry operations until relieved by another attendant, or until the permit action is completed.
 - Communicate with authorized entrants as necessary to monitor entrant status and to alert entrants of the need to evacuate the space.
 - Take the following actions when unauthorized persons approach or enter a permit space when entry is underway
 - Warn the unauthorized persons that they must stay away from the permit space.
 - Advise the unauthorized persons that they must exit immediately if they have entered the space.
 - Inform the authorized entrants and the entry supervisor if unauthorized persons have entered the permit space.
 - Monitor activities inside and outside the space to determine if it is safe for entrants to remain in the space and order the authorized entrants to evacuate the permit space immediately under any of the following conditions

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Commanders/
Activity
Directors
(continued)

- A prohibited condition is detected.
 - The attendant detects a situation outside the space that could endanger the authorized entrants.
 - The attendant cannot effectively and safely perform his/her duties.
- Upon determining that entrants are in danger and need assistance, immediately notify Emergency Rescue Services (See paragraph 5e(7)), the entry supervisor, and other emergency agencies as required.
 - Communication should be conducted by radio or telephone
 - Under no circumstances will the attendant leave the area.
- Initiate non-entry rescue procedures (that is, mechanical retrieval system) if doing so will not endanger the attendant or other personnel outside the space and, if doing so will not cause additional harm to the entrants.
 - Under no circumstances is the attendant to enter the space.

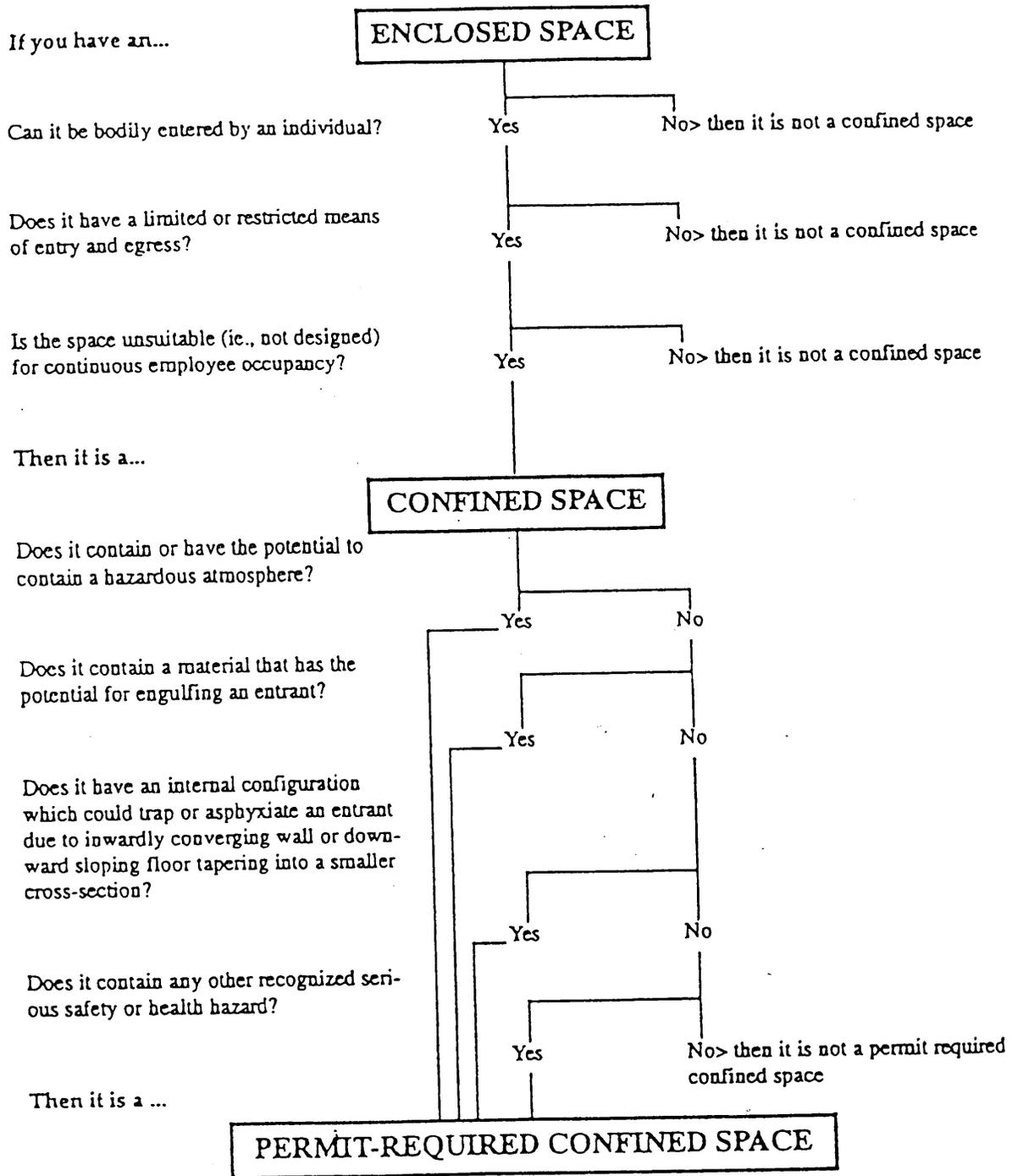
Rescue

- Self-rescue is achieved when authorized entrants leave the confined space on their own, which is the desired situation.
- If self-rescue is not achieved, non-entry rescue is the next preferred method, that is, retrieving an entrant using attached full body harness and mechanical tripod (retrieval system equipment).
 - During non-entry rescue, the attendant will not enter the confined space.
 - A retrieval system is required anytime an authorized entrant makes entry into a vertical permit-required confined space more than 5 feet deep, unless usage would create a greater hazard to the entrant.
 - The retrieval system must be attached to a fixed point outside the confined space.
- Emergency Rescue
 - Procedures for emergency rescue will be followed according to paragraphs 5e(7).
 - DPW, Fire, Emergency Services Branch is the only authorized agency to enter the permit space and perform emergency rescue by properly trained and authorized personnel.

2e

APPENDIX A
IDENTIFICATION OF PERMIT-REQUIRED CONFINED SPACES (FLOW CHART)

Initial Determination Flowchart for 1910.146



**APPENDIX B
SAMPLE, FH FORM 1556**

REQUEST, AUTHORIZATION, AGREEMENT, CERTIFICATION OF TRAINING AND REIMBURSEMENT			FY	
READ AND SIGN PRIVACY ACT STATEMENT ON REVERSE OF THIS FORM				
SECTION A - TRAINEE INFORMATION				
1 APPLICANT'S NAME (LAST, FIRST, MIDDLE INITIAL) <small>(Indicate preferred title (e.g., Captain, Miss, Mrs., Mr., Ms., etc.))</small>		2 SOCIAL SECURITY NUMBER		3 DATE OF BIRTH <small>(YEAR/MONTH/II)</small>
4 POSITION LEVEL/ SUPERVISION POSITION CODE Non-Supervisory Supervisory Manager Executive Other _____		5 ORGANIZATION MAILING ADDRESS <small>(In accordance with the Bureau and Agency Network Command)</small>		
6 OFFICE TELEPHONE		7 POSITION TITLE/FUNCTION	8 CONTINUOUS FEDERAL SERVICE <small>(YEAR/MONTHS)</small>	9 NUMBER OF PRIOR NON-GOVERNMENT TRAINING DAYS
10 PAY PLAN/SERIES/GRADE/STEP RANK/MOS		11 TYPE OF APPOINTMENT	12 EDUCATION LEVEL	
SECTION B - TRAINING COURSE DATA				
13 NAME AND MAILING ADDRESS OF RECOMMENDED TRAINING SOURCE, SCHOOL, OR FACILITY		14 LOCATION OF TRAINING SITE (IF SAME NUMBER) <input type="checkbox"/>		
15 COURSE TITLE OR TRAINING SERVICES		16 TRAINING PERIOD <small>(GIVE IN)</small>		
START		YEAR	MONTH	DAY
COMPLETE		17 NUMBER OF COURSE HOURS		
SECTION C - COSTS AND BILLING INFORMATION				
18 TRAINING DOES NOT INVOLVE EXPENDITURES OF FUNDS OTHER THAN SALARY, PAY, OR COMPENSATION.				
19 DIRECT COSTS AND APPROPRIATION/FUND CHARGEABLE (COSTS INCURRED AND BILLED ARE NOT TO EXCEED AMOUNT IN 18A)				
18A TOTAL DIRECT AUTHORIZED \$	18B TUITION COST \$	18C BOOKS, MATERIAL OR OTHER COSTS \$	18D FUNDING SOURCE	
19 ACCOUNTING CLASSIFICATION FOR DIRECT COSTS		20 SIGNATURE OF FISCAL OFFICER		
SECTION D - APPROVAL/CONCURRENCE		SECTION E - APPROVAL/CONCURRENCE		
21 I CERTIFY THIS TRAINING IS JOB RELATED (SUPERVISOR/NATAL-15111) <small>(SIGNATURE)</small>		23 AUTHORIZING OFFICIAL (NAME/TITLE/SIGNATURE)		
TELEPHONE		DATE	TELEPHONE	DATE
22 DOES NOMINEE MEET PREREQUISITES? <input type="checkbox"/> YES <input type="checkbox"/> NO <small>IF NO ATTACH WAIVER REQUEST</small>		SECTION F - CERTIFICATION OF TRAINING COMPLETION		
I CERTIFY THAT THIS TRAINING MEETS REGULATORY REQUIREMENTS: TRAINING OFFICER (NAME/TITLE/SIGNATURE)		24 IF COURSE NOT COMPLETED, RETURN THIS FORM WITH AN EXPLANATORY MEMO		
TELEPHONE		DATE	SCHOOL OFFICIAL/TRAINEE (SIGNATURE)	DATE
25. ACTUAL COMPLETION DATE		YEAR MONTH DATE GRADE		

FH FORM 1556

APPENDIX C
SAMPLE FH FORM 385-12,
FORT HOOD PERMIT REQUIRED CONFINED SPACE ENTRY PERMIT NUMBER

FORT HOOD PERMIT REQUIRED CONFINED SPACE ENTRY PERMIT NO. _____		
Location _____	Unit/Activity _____	Date: _____
Confined Space To Be Entered _____		
Permit Expiration Date/Time: From _____ To: _____		
Description of Work to Be Performed _____		

PERMIT SPACE HAZARDS: (Indicate probable hazards)

- | | |
|---|--|
| <input type="checkbox"/> Oxygen Deficiency (<19.5%) | <input type="checkbox"/> Oxygen Enrichment (>23.5%) |
| <input type="checkbox"/> Flammable gases or vapors (> 10% of LFL/LEL) | <input type="checkbox"/> Excessive dust |
| <input type="checkbox"/> Carbon Monoxide | <input type="checkbox"/> Elevated Work Area |
| <input type="checkbox"/> Poor Lighting | <input type="checkbox"/> Biological Hazards |
| <input type="checkbox"/> Live Electrical Lines | <input type="checkbox"/> Engulfment |
| <input type="checkbox"/> Hot Water/Steam lines | <input type="checkbox"/> Standing Water |
| <input type="checkbox"/> Vehicular Traffic | <input type="checkbox"/> Animals, Vermin |
| <input type="checkbox"/> Converging Floors | <input type="checkbox"/> Agitators, Stirrers |
| <input type="checkbox"/> Motors, fans, or pumps | <input type="checkbox"/> Excessive Heat |
| <input type="checkbox"/> Unstable structures | <input type="checkbox"/> Hot Work Permit Required (Attach) |
| <input type="checkbox"/> Toxic Gases or Vapors (>PEL) | <input type="checkbox"/> Other _____ |

PREPARATION FOR ENTRY: (Check off or N/A)

- Safety meeting held with all entrants. Pre-entry briefing on specific hazards, work to be performed, control methods, and emergency egress
- Fire Department/Emergency rescue service available
- Ventilation equipment set up and checked for proper operation
- Monitoring instruments charged and calibrated
- Airline respirators checked for proper function
- Escape bottles and supply bottles for airline respirators filled
- Fire extinguisher present and charged
- All entrants equipped with personal protective equipment
- Telephone or radio immediately available
- Specify: Radio Telephone Mobile Phone
- All personnel have received current training
- No personnel ill or under the influence of drugs or alcohol
- Control measures/procedures explained to non-authorized personnel in area
- Continuous adequate ventilation
- Electrical components isolated from power source and locked/tagged out
- Product feed lines blocked, closed, or disconnected and locked out
- Work area marked with barrier tape/traffic barriers in place
- Full-body harness available and in good condition
- Retrieval lines in good condition
- Winch and mounting devices present and operational
- Lifting winch mounted and ready
- Specify type of mount: Tripod Davit Arm Stable structure
- Material Safety Data Sheet(s) MSDS

STANDARD CONTROL PROCEDURES:

Preparations:

- Blank/Blind Lines Purge/Clean
- Inert Barriers Double Block and Bleed

Ventilation Methods:

- Mechanical Natural Continuous

Appendix C, Sample FH Form 385-X12, Fort Hood Permit Required Confined Space Entry Permit No. (continued)

Isolation Methods:

- Electrical Lockout/Tagout
- Atmospheric Test/Monitor
- Mechanical Lockout/Tagout
- Other

SAFETY EQUIPMENT REQUIRED:

- Safety glasses/goggles
- Work gloves
- Dust masks
- Supplied air respirators
- Rubber boots
- Hearing protection
- Safety footwear
- Chemical gloves
- Air purifying respirators
- Fall prevention equipment
- Protective coveralls
- Other
- Safety Helmets
- Lifeline/Harness
- Fire Extinguishers
- Non-Entry Retrieval Equip (Tripod w/mech winch)
- Lighting Equip (Explosion Proof)

AUTHORIZED ENTRANTS: (Print)

AUTHORIZED ATTENDANTS: (Print)

EMERGENCY RESCUE: Fort Hood Fire Dept, 117/911, or 287-3908 (May be contacted by radio BRAVO/FOXTROT)

The attendant will maintain communications with emergency services and must be equipped with a radio or mobile phone, or must be able to reach a working non-pay telephone within 30 seconds.

ATMOSPHERIC TESTING

(Testing Order: 1a- Oxygen; 2d- Flammability; 3d- Toxicity)

TEST	Allowed Limits	Check (X) if required	Result									
			: AM	: PM								
Oxygen-min	>19.5%											
Oxygen-max	<23.5%											
Flammability	< 10% LEL/LFL											
H2S	< 10ppm											
Toxic (specify)	< PEL											
CL2	< 5ppm											
CO	< 25ppm											
SO2	< 2ppm											
Heat	degrees F/C											
Other												
Other												

REMEMBER: TEST.....TEST.....TEST.....TEST!

Name of person conducting atmospheric monitoring: _____

Instrument Used: _____ Date Calibrated: _____

AUTHORIZATION BY ENTRY SUPERVISOR:

I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this confined space.

Name (Print): _____ Time: _____ Date: _____

Signature: _____

GLOSSARY

CFR - Code of Federal Regulations

ACofS - Assistant Chief of Staff

DPW - Directorate, Public Works

TERMS

Attendant

an individual stationed outside one or more permit spaces who monitors the authorized entrants and who, performs all attendant's duties assigned in the organization's permit space program.

Authorized Entrant

an individual who is authorized to enter a permit space.

Confined Space

space large enough and so configured that an individual can physically enter and perform assigned work; has limited or restricted means for entry or exit, i.e., fuel/oil storage tanks, aircraft fuel cells, missiles, hoppers, vaults, railroad tank cars, manholes, boilers, and pits are spaces that have a limited means of entry; and is not designed for continuous human occupancy.

Engulfment

the surrounding and effective capture of a person by a liquid or finely divided (flowing) solid substance that can be aspirated to cause death by filling or plugging the respiratory system or that can exert enough force on the body to cause death by strangulation, constriction, or crushing.

Entry Permit

the written or printed document that is provided by the organization to allow and control entry into a permit space and that contains the required information specified in CFR 1910.146.

Hazardous Atmosphere

atmosphere that may expose individuals to risk of death, incapacitation, impairment of ability to self-rescue (escape unaided from a permit space), injury, or acute illness from one or more of the following:

- (1) Flammable gas, vapor, or mist in excess of 10 percent of its lower flammable limit; Note: lower flammable limit is the same as lower explosive limit.
- (2) Airborne combustible dust at a concentration that meets or exceeds its lower flammable limit; Note: This concentration may be approximated as a condition in which the dust obstructs vision at a distance of 5 feet (1.52 m) or less.
- (3) Atmosphere oxygen concentration below 19.5 percent or above 23.5 percent.
- (4) Atmospheric concentration of any substance for which a dose or a permissible exposure limit is published in Subpart G, Occupational Health and Environmental Control, or in Subpart Z, Toxic and Hazardous Substances, and which could result in individual exposure in excess of its dose or permissible exposure limit; Note: An atmospheric concentration of any substance that is not capable of causing death, incapacitation, impairment of ability to self-rescue, injury, or acute illness due to its health effects is not covered by its provision.
- (5) Any other atmospheric condition that is immediately dangerous to life or health. Note: For air contaminants for which the Occupational Safety and Health Association has not determined a dose or permissible exposure limit, other sources of information, such as Material Safety Data Sheets that comply with the Hazard Communication Standard 1910.1200, published information, and internal documents can provide guidance in establishing acceptable atmospheric conditions.

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Immediately Dangerous to Life or Health

any condition that poses an immediate or delayed threat to life or that would cause irreversible adverse health effects or that would interfere with an individual's ability to escape unaided from a permit space. Note: Some materials - hydrogen fluoride gas and cadmium vapor, for example - may produce immediate transient effects that, even if severe, may pass without medical attention, but are followed by sudden, possibly fatal collapse 12-72 hours after exposure. The victim "feels normal" from recovery from transient effects until collapse. Such materials in hazardous quantities are considered to be "immediately" dangerous to life or health.

Non-Permit Confined Space

a confined space that does not contain or with respect to atmospheric hazards, have the potential to contain any hazard capable of causing death or serious physical harm.

Oxygen Deficient Atmosphere

an atmosphere containing less than 19.5 percent oxygen by volume (at sea level).

Oxygen Enriched Atmosphere

an atmosphere containing more than 23.5 percent oxygen by volume (at sea level).

Permit- Required Confined Space (or Permit Space) Program

a written program for controlling, and, where appropriate, for protecting individuals from permit space hazards and for regulating individual entry into permit spaces.

Permit-Required Confined Space (Permit Space)

a space that meets all three definitions of a confined space and has one or more of the following characteristics:

- (1) Contains or has the potential to contain a hazardous atmosphere.
- (2) Contains a material that has the potential for engulfing and entrant.
- (3) Has an internal configuration such that an entrant could be trapped or asphyxiated by inwardly converging walls or by a floor which slopes downward and tapers to a smaller cross section.
- (4) Contains any other recognized serious safety or health hazard.

Permit Required Controlled Hazard

A confined space in which the only hazard is actual or potential atmospheric hazard and where the organization can demonstrate that continuous forced air ventilation alone is sufficient to maintain the space safe for entry.

Permit Required Non-Controlled Hazard

A confined space which does not classify as a permit required controlled hazard but has one of the following hazards: present or potential hazardous atmosphere, engulfment potential, converging configuration, or any other recognized serious safety or health hazard.

Permit System

written procedures for preparing and issuing permits for entry and for returning the permit space to service following termination of entry.

Rescue Services

personnel designated to rescue individuals from permit spaces.

Testing

process by which the hazards that may confront entrants of a permit space are identified and evaluated. Testing includes specifying the tests that are to be performed in the permit space. Note: Testing enables organizations both to devise and implement adequate control measures for the protection of authorized entrants and to determine if acceptable entry conditions are present immediately prior to and during entry.

The proponent for this regulation is the ACofS, G1, Safety Office

FOR THE COMMANDER:



DANIEL R. ZANINI
BG, USA
Chief of Staff

SCOTT T. LOFGREN
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DOIM

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