



DEPARTMENT OF THE NAVY
U.S. NAVAL SUPPORT ACTIVITY
BAHRAIN
FPO AE 09834-2800

CANC FRP: Oct 2020

NSABAHRAINNOTE 5100
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20 NOV 2019

U.S. NAVAL SUPPORT ACTIVITY BAHRAIN NOTICE 5100

From: Commanding Officer, U.S. Naval Support Activity, Bahrain

Subj: CONFINED SPACE EMERGENCY RESPONSE PLAN AND PROCEDURES

Ref: (a) CNO Special Assistant for Safety Matter N09F Letter, 1 July 2019
(b) CNIC Maritime Confined Space Planning Policy Unclassified Navy Message, 12 August 2019
(c) OPNAVINST 5100.23G
(d) NSABAHRAININST 5100.1B
(e) S6470-AA-SAF-010

Encl: (1) CONFINED SPACE EMERGENCY RESPONSE PLAN AND PROCEDURE

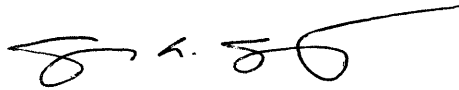
1. Purpose. To issue Commanding Officer, U.S. Naval Support Activity (NSA), Bahrain confined space emergency response plan and procedures.
2. Background. Reference (a) identified a possible problem with maritime confined space planning. Reference (b) directs all Commander Naval Installation Commands to review and update local confined space emergency response plans and procedures no later than 26 September, 2019. As reference (c) has been revised and is anticipated to be signed into effect soon; the revision of the local instruction (reference (d)) is withheld until updated version of reference (c) is released. This note will be in effect immediately superseding the response plans listed in the current local instruction, reference (d).
3. Action. All NSA Bahrain departments and tenant commands that receive Base Operating Support safety services from Safety and Occupational Health Department shall comply with requirements listed in enclosure (1).
4. Cancellation Contingency. This notice will be cancelled on issuance of updated reference (d).

CANC FRP: Oct 2020

NSABAHRAINNOTE 5100

5. Point of Contact. Mr. Asif Thaj at the Safety and Occupational Health Department who can be reached via e-mail at: asif.thaj.in@me.navy.mil or DSN: 318-439-3527, COMM: +973-1785-3527.

6. Records Management. Records created as a result of this instruction, regardless of media or format, must be managed per SECNAV Manual 5210.1 of January 2012.

A handwritten signature in black ink, appearing to read 'G. A. Smith', with a long horizontal flourish extending to the right.

G. A. SMITH

Releasability and distribution:

This notice is cleared for public release and is available electronically only via the NAVSUPACT Web site: <https://ossp.me.navy.mil/bahrain/NSA/Pages/default.aspx>

CONFINED SPACE EMERGENCY RESPONSE PLAN AND PROCEDURE (MARITIME & NON-MARITIME)

Emergency Response Plan

Retrieval systems or rescue services must be employed for all permit required confined space entries. Non-entry rescue (i.e., use of equipment that does not require additional personnel to enter the confined space) is the preferred method of rescue and should be utilized whenever possible. Non-permit required confined spaces do not require retrieval or rescue services, however; retrieval systems should be utilized whenever possible.

1.1 Non-permit Required Confined Space:

Work in non-permit confined spaces does not require retrieval systems or rescue services to be on site. If an accident or emergency occurs within a non-permit required confined space, notify emergency services (DSN: 911, Commercial: 1785-4911). If a non-permit required confined space rescue is necessary, the attendant is responsible for the following:

- Summoning emergency responders;
- Attempting to rescue entrants using non-entry rescue procedures;
- Monitoring the emergency and informing responders about the location, number of victims, their condition, and the hazards in the space.

1.2 Permit Required Confine Space with Retrieval System:

A retrieval system must be available to retrieve entrants from vertical permit required confined spaces that are more than five feet deep. The retrieval system must be used to rescue an entrant unless the equipment would increase the entrant's risk of injury. Each authorized entrant must use a properly-attached full-body harness. Entrants may use wristlets if full-body harnesses put them at a greater risk of injury in an emergency. The other end of the retrieval line must be attached to a retrieval system outside the permit space so that rescue can begin immediately. If an entrant can be exposed to a hazardous substance a Safety Data Sheet is required to be kept so that it is available to the medical facility that treats the entrant.

1.3 Permit Required Confined Space without Retrieval System:

For any permit required confined spaces where non-entry retrieval systems cannot be utilized, a Site-Specific Rescue Plan (SSRP) must be completed. Supervisors must notify NSA Bahrain Safety and Occupational Health Department for further assessment for all confined spaces that require entry for rescue. Emergency rescue service contact information must appear on all permit required Confined Space Entry Permits and must be provided to all entry supervisors, attendants, and entrants during confined space operations.

2.0 Prior to entry and work in the Permit Required Confined Space (PRCS):

2.1 The entry supervisor will ensure that the attached “SSRP” for the PRCS has been completed and that all the rescue equipment identified in the plan is available to effect a rescue in the PRCS.

2.2 The entry supervisor will ensure that an adequate number of appropriately trained persons (as documented in the attached “SSRP”) are available for immediate implementation of these on-site rescue procedures that apply to the PRCS.

2.3 The entry supervisor will review all emergency procedures, including procedures relating to emergencies outside the PRCS with all entrants and other related personnel.

2.4 The attendant establishes communication with all workers, using the means described in the attached “SSRP.”

3.0 On entry and while working in the PRCS:

3.1 The attendant who is stationed outside and near the entrance to the PRCS as described in the attached “SSRP” remains in constant communication with all workers inside the PRCS.

3.2 The attendant must be notified immediately if an entrant recognizes:

- Unusual action/ behavior
- An unexpected hazard
- An unsafe act
- Detects a condition prohibited by the permit

3.3 Entrants must exit the confined space as quickly as possible, when:

- An order to evacuate is given by the attendant or entry supervisor
- An entrant recognizes a sign or symptom of over-exposure
- An unacceptable condition arises
- An evacuation alarm is activated

4.0 In the event of a confined space rescue:

4.1 The attendant does not enter the PRCS but immediately summons a rescue response from the rescue team, using the means of communication described in the attached “SSRP.”

Emergency Response Procedure

1.0 In the event an individual is rendered unconscious, incapacitated, trapped, or begins to panic while in a confined space, the following general procedures shall be used for evacuation from a confined space.

1.1 An emergency rescue control point shall be established at a location suitable to supply emergency rescue assistance within a reasonable period of time. The senior NSA Bahrain Fire &

Emergency Services (F&ES) person in charge of the rescue shall determine this control point as soon as possible. The location shall be clearly evaluated dependent upon the nature and conditions of the operation and the space. In some cases such as emergency entries into the spaces that are immediately dangerous to life and health (IDLH), or with complex configurations, it may be necessary to locate the rescue points immediately adjacent to the space. In other cases the NSA Bahrain fire stations are considered suitable for this purpose.

1.2 Emergency rescue control points shall be manned with an adequate number of trained and qualified personnel to enable rescue of personnel from the confined space involved.

1.3 The attendant who is stationed directly outside the confined space shall alert the fire guard, who is in communication range of the attendant that a confined space emergency has occurred. The attendant shall not enter the confined space to attempt the rescue. No rescue attempt involving entry shall be made until the rescue point has been notified and NSA Bahrain F&ES rescue personnel have arrived. Rescue efforts by means of a lifeline (if used) shall be made until assistance has arrived.

1.4 If the individual working in the confined space is:

a. Unconscious or incapacitated, the NSA Bahrain F&ES rescuer shall put on a NIOSH/MSHA approved pressure demand Self-Contained Breathing Apparatus (SCBA), harness, and lifeline (where possible), and any other personal protective equipment applicable to the conditions, enter the confined space, and immediately rescue the victim. The safety observer (rescuer) shall assist/remove the victim out of the confined space. If the victim is unconscious, grasp under the arms or around the legs and pull the victim out of the confined space, taking particular care to avoid injuring the victim's head.

b. Trapped or begins to panic, the rescuer shall verbally attempt to calm the victim by providing words of encouragement or whatever else is called for, depending on the situation. Should the individual become violent and refuse to calm down, the hospital should administer a sedative. Once the victim is calm, the victim shall be removed from the confined space.

2.0 Medical services and treatment:

2.1 Personnel overcome or injured in a confined space incident on NSA Bahrain is transported via ambulance to the appropriate Emergency Room in accordance with NSA Bahrain's hospital capabilities matrix.

Clarification

1.0 Maritime confined space work will be conducted in accordance with S6470-AA-SAF-010 - Naval Maritime Confined Space Program or as updated.

1.1 Non-Maritime confined space work will be conducted in accordance with reference (c) or as updated.

2.0 Emergency service:

2.1 Emergency services (rescue, retrieval, etc.) required during any maritime confined space work on NSA II is initially rendered by trained and qualified ship's force. Much like integrated fire response procedures, the confined space rescue is an integrated response event. Ship's forces or organizations making a Confined space entry shall conduct normal entry operations (training, equipment, attendants, and immediate rescue capability). In the event of an emergency, NSA Bahrain F&ES shall be summoned through NSA Bahrain Emergency Dispatch, DSN: 911 or Commercial: 1785-4911. Upon arrival F&ES will integrate to provide an effective response force. The NSA Bahrain Emergency Dispatch will be notified in advance of any confined space entry when team members are using supplied air or SCBA and accessing class 1 or class 2 confined spaces (as defined in S6470-AA-SAF-010) at least 60 minutes in advance of the entry and when operations are completed. The dispatch center will notify F&ES of the class 1 or class 2 entry.

2.2 Emergency services (rescue, retrieval, etc.) required during any maritime confined space work at contractor space, i.e. off-base (non-US Government space), is handled by trained and qualified contract personnel and local/host nation emergency service such as Ministry of Interior - Civil Defense. However, they shall notify Emergency Dispatch at DSN: 911 or Commercial: 1785-4911 for NSA Bahrain F&ES response (supplementing rescue procedures). All off-base response by NSA Bahrain F&ES will require a request from the appropriate entity and authorization by NSA Bahrain, Commanding Officer.

Supplementary Instructions

Higher authority instructions may implement additional more stringent requirements. Unless this note specifically exempts or supersedes those requirements, they will be followed. Other instructions shall not relax the minimum requirements of this note.

NOTE: NSA Bahrain Fire & Emergency Services (F&ES) response will be in accordance with Standard Operating Guideline (SOG) – 20 (Confined Space Rescue).

Definitions

CONFINED SPACE - A space which has limited and restricted openings for entry, exit, and a lack of natural ventilation which could contain or produce hazardous contaminants, oxygen deficiencies, or enrichment. Confined spaces are not intended for normal continuous personnel occupancy. Confined spaces include but are not limited to storage tanks, ballast tanks, reaction vessels, boilers, ventilation ducting, sewers, condensers, and pipelines.

PERMIT REQUIRED CONFINED SPACE (PRCS) - A confined space that, has any 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 the entrant; 3) Has an internal configuration that might cause an entrant to be trapped or asphyxiated by inwardly

converging walls or by a floor that slopes downward and tapers to a smaller cross section; and, 40 contains any other recognized serious safety or health hazards.

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 employer's permit space program.

AUTHORIZED ENTRANT - An employee who is authorized by the employer to enter a permit space.

ENTRY SUPERVISOR - The person (such as the employer, foreman, or crew chief) responsible for determining if acceptable entry conditions are present at a permit space where entry is planned, for authorizing entry and overseeing entry operations, and for terminating entry as required by this section.

IDLH – Immediately Dangerous to Life or Health - An atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a dangerous atmosphere.

MARITIME OPERATIONS - Involves Shipbuilding, Ship repair, Shipbreaking and related work activities.

MARITIME VESSELS - Include naval Ships, watercraft, barges, floating cranes, derricks, and floating dry docks.

NAVAL MARITIME FACILITIES - Include naval Shipyards, Ship repair facilities, trident refit facilities, regional maintenance centers and regional repair centers.

CLASS I SPACE - A Class I Space contains atmospheres or conditions which are, or which may be reasonably expected to become, IDLH. Such conditions include the presence of flammable vapors at a concentration of 10% or greater of the Lower Explosive Limit, oxygen content less than 19.5% or greater than 22%, the presence of toxic agents which exceed a level from which a person could escape within 30 minutes without impairing symptoms or irreversible health effects or any combination of these conditions.

CLASS II SPACE - A Class II Space contains atmospheres or conditions which are, or which may reasonably be expected to become, dangerous but not IDLH. Such conditions include the presence of flammables, flammable atmospheres in concentrations at or greater than 1% but less than 10% of the lower explosive limit (LEL), oxygen content at or greater than 19.5% but at or less than 22%, the presence of toxic agents at concentrations below levels which are IDLH but at or above established Permissible Exposure Limits (PELs) or any combination of these conditions.

SITE SPECIFIC RESCUE PLAN (SSRP)

Confined Space Name/Location:	Identification #:	Date:
Attendant:	Department/Command:	
On-Site Rescue Personnel/Designation:		
1.	2.	
3.	4.	
Methods of Communication		
Attendant to Rescue Personnel: <input type="checkbox"/> Phone <input type="checkbox"/> Audible Signal <input type="checkbox"/> Radio <input type="checkbox"/> Intercom		
Attendant to Workers: <input type="checkbox"/> Phone <input type="checkbox"/> Radio <input type="checkbox"/> Intercom <input type="checkbox"/> Audible Signal <input type="checkbox"/> Visual Hand Signal <input type="checkbox"/> Rope Signal		
Methods of Rescue:		
<input type="checkbox"/> External (Retrieval) <input type="checkbox"/> Internal: _____ <input type="checkbox"/> Congested: _____		
<input type="checkbox"/> Hauling System Required: _____ <input type="checkbox"/> Patient lowering system required/lowering area: _____		
<input type="checkbox"/> Anchor overhead: _____		
Anchorage: <input type="checkbox"/> Beam <input type="checkbox"/> Stairwell <input type="checkbox"/> Support Strut <input type="checkbox"/> Support Column <input type="checkbox"/> Other: _____		
Pre-Rigging required? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Rescue Equipment Requirements (check a <input checked="" type="checkbox"/> where applicable below and indicate quantity needed):		
<input type="checkbox"/> Hauling Systems: _____ <input type="checkbox"/> Carabiners: _____ <input type="checkbox"/> Pulleys: _____		
<input type="checkbox"/> Anchor Straps: _____ <input type="checkbox"/> Webbing: _____ <input type="checkbox"/> Ascenders: _____		
<input type="checkbox"/> Body Harnesses: _____ <input type="checkbox"/> Rigging Plates: _____ <input type="checkbox"/> Safety Lines: _____		
<input type="checkbox"/> Main Lines: _____ <input type="checkbox"/> Wrist/Ankle Harnesses: _____		
<input type="checkbox"/> Fire Extinguishers: _____ <input type="checkbox"/> Shock absorbers/lanyards: _____		
Rescue Equipment Inspections		
Identified rescue equipment inspected by competent worker: _____		
Department/Command: _____ Record of inspection(s) attached <input type="checkbox"/> Yes		
Medical Equipment Requirements (check a where applicable below and indicate quantity needed):		
<input type="checkbox"/> First Aid Kit: _____ <input type="checkbox"/> Packaging Device: _____		
Additional PPE Requirements (Indicate what is needed):		
<input type="checkbox"/> High Visibility Vests <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Safety Boots <input type="checkbox"/> Hard Hats		
<input type="checkbox"/> Safety Glasses/Goggles <input type="checkbox"/> Gloves <input type="checkbox"/> Face Shield		
Description of Space (include location of attendant):		
Diagram of Space (Use Back of Page if needed):		
Completed by: _____ <input type="checkbox"/> Entry Supervisor <input type="checkbox"/> Attendant <input type="checkbox"/> Other: _____ Date: _____		