APPLICATION

NYU Langone Health

PURPOSE

To protect personnel who enter confined spaces and permit-required confined spaces (PRCSs)

To comply with the Occupational Safety and Health Administration (OSHA) standards on confined space entry (General Industry: 29 CFR 1910.146 and Construction: 29 CFR 1926 Subpart AA)

POLICY

1.0 Application

NYU Langone Health (NYULH) refers to the NYU Langone Health System, NYU Langone Hospitals, NYU Grossman School of Medicine, NYU Long Island School of Medicine, the Family Health Centers at NYU Langone, and all entities controlled by any of them.

This policy applies to:
- All indoor and outdoor areas of all NYULH owned and leased facilities
- All employees, contractors, and consultants of NYULH

The primary departments and divisions impacted by the program are:
- Facilities (Facilities Management, Facilities Operations, and Engineering)
- Real Estate
- RED+F Design and Construction
- Environmental Services
- Contractors and subcontractors

2.0 Definitions

Attendant refers to an individual stationed outside a PRCS who assesses the status of authorized entrants and performs the duties specified in the applicable OSHA PRCS standard.

Authorized entrant refers to an individual who is authorized to enter a PRCS.

Competent person means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or

dangerous to personnel, and who has the authorization to take prompt corrective measures to eliminate them.

Confined space means a space that:
- Is large enough and so configured that a person can bodily enter and perform assigned work; and
- Has limited or restricted means for entry or exit (e.g., tanks, vessels, boilers, pits, vaults, manholes, sewers, drains, water mains, ceiling plenums, ductwork); and
- Is not designed for continuous occupancy.

Controlling contractor refers to the employer that has overall responsibility for construction at the worksite (e.g., prime contractor, general contractor, or construction manager).

Entry supervisor refers to the person who is responsible for determining if acceptable entry conditions are present at a PRCS where entry is planned, for authorizing entry, overseeing entry operations, and for terminating entry as required by the applicable OSHA PRCS standard. On construction projects, the entry supervisor must meet OSHA's definition of a qualified person (see below).

Permit refers to NYULH's PRCS permit (see Appendix A) completed in accordance with Appendix B, or another permit authorized by Environmental Health and Safety (EH&S).

Permit-required confined space (PRCS) has one or more of the following characteristics:
- Contains or may contain a hazardous atmosphere
- Contains a material that may engulf an entrant
- Has an internal configuration that can trap or asphyxiate an entrant
- Has any other serious health or safety hazard

Program means the employer's overall program for controlling, and where appropriate, protecting employees from, PRCS hazards, and for managing employee entry into PRCSs.

Qualified person means one who, by possession of a recognized degree, certificate or professional standing, or by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work, or the project.

3.0 Responsibilities

3.1 **Environmental Health and Safety (EH&S)** is responsible for:

- Developing the PRCS Entry Program (the Program) and collaborating with others to implement and maintain it.
- Providing confined space awareness training to relevant groups, including Facilities, Real Estate, RED+F Design and Construction, and Environmental Services.
- Functioning as a consultant on an as needed basis for confined space and PRCS entry issues.
- Maintaining a list of qualified, approved consultants who can provide confined space training and assist staff with oversight of PRCS work including atmospheric testing.
- Evaluating the effectiveness of the Program and recommending changes as needed.

3.2 **Facilities and Real Estate** are responsible for:

- Managing the Program and the permitting process in facilities they maintain.
- Ensuring that all PRCSs are identified and included in the Program.

3.3 The **Vice Presidents** and **Directors** of **Facilities**, **Real Estate** and **RED+F Design and Construction** are responsible for compliance within their departments and divisions. Their responsibilities include, but are not limited to:

- Implementing the Program within their departments and divisions.
- Ensuring all requirements of this policy are followed.
- Ensuring all PRCS work is identified and included in the Program.
- Ensuring all personnel who participate in confined space and PRCS work receive the training outlined in Sections 7 and 8 of this policy prior to assignment.
- Ensuring that employees have the required safety equipment.
- Ensuring contractors comply with this policy.

3.4 **Managers and forepersons** are responsible for:

- Implementing and maintaining the Program within their work groups.

- Notifying EH&S (or the Sr. Director of Engineering at NYU Langone Hospital-Long Island (NYULH-LI)) of PRCS work one (1) week in advance for planned work and immediately for emergencies.
- Ensuring all personnel who participate in confined space and PRCS work have the training outlined in Sections 7 and 8 of this policy prior to assignment.
- Submitting a Job Safety Analysis (JSA) (a step by step plan for completing PRCS work, which lists the hazards associated with the work and the plan for addressing them) to EH&S, or the Sr. Director of NYULH-LI Engineering, or an authorized consultant, as applicable, for review. The JSA shall also address emergency rescue procedures (e.g. non-entry rescue, qualified rescue vendor).
- Ensuring their employees have the required safety equipment.
- Ensuring shutdown and lockout/tagout of necessary utilities.
- Ensuring contractors comply with this policy (e.g., submit a written PRCS program, training records, and JSA for review, employ necessary safety equipment).

3.5 **Project managers (PMs)** (e.g., design, construction, renovation, operations, and maintenance) and **Tenant Coordinators (TCs)** are responsible for:

- Implementing and maintaining the Program at their facility or on their project.
- Ensuring employees and contractors comply with this policy by:
  - Incorporating the requirements of the policy into the specifications for the work.
  - Informing contractors about the requirements of this policy during the bidding process.
- Notifying EH&S (or the Sr. Director of Engineering at NYULH-LI) of PRCS work one (1) week in advance.
  - Submitting contractor's training documents, written PRCS program, and JSA to EH&S, or the Sr. Director of NYULH-LI Engineering, or an authorized consultant, as applicable, for review.
  - Coordinate the shutdown and lockout/tagout of necessary utilities.
  - During the design or redesign phase, seeking feasible solutions to eliminate PRCS hazards and entry (e.g., by providing unrestricted access and egress, designing test holes).

3.6 **Controlling contractors and subcontractors** are responsible for:

- Complying with all provisions of the OSHA Confined Spaces in Construction standard and requirements of this policy.
- Informing managers, PMs and TCs about the existence, creation, and modification of PRCSs during construction or renovation at least one (1) week in advance.
- Preventing unauthorized entry to PRCSs by posting warning signs consistent with Section 4.0 of this Policy and securing PRCS entry by locked cover, hatch, or other effective means.
- Obtaining copies of PRCS training documents for the entry supervisor, attendant, and authorized entrants and submitting them to the PM or TC. Ensuring that the entry supervisor meets OSHA's definition of a qualified person.
- Obtaining, reviewing and submitting the contractor's written PRCS program and JSA to the PM or TC. The JSA shall also address emergency rescue procedures (e.g. non-entry rescue, qualified rescue vendor).

3.7 Workers who participate in confined space and PRCS work are responsible for:

- Attending the training outlined in Section 8 of this policy prior to assignment.
- Requesting a Permit prior to entering any PRCS.
- Following the requirements of the Permit.
- Immediately notifying their supervisors of any pertinent problems.

4.0 PRCS identification and signage

4.1 Facilities and Real Estate identify all PRCSs in their facilities, and install signs on or stencils each space reading DANGER - PERMIT-REQUIRED CONFINED SPACE - DO NOT ENTER. A list of PRCSs in owned spaces is included as Appendix C.

5.0 PRCS entry procedures

5.1 The foreman, manager, PM or TC shall contact EH&S, or the Sr. Director of Engineering at NYULH-LI, or an authorized consultant one (1) week prior to scheduling work in a PRCS and provide a brief scope of work to be performed.

For emergency work, they shall contact EH&S, the Sr. Director of NYULH-LI Engineering or designee, or the consultant immediately.

5.2 Prior to work in a PRCS, the entry supervisor shall evaluate all potential hazards present in, and introduced into, the space, and implement appropriate controls.

5.3 Prior to work in a PRCS, personnel shall obtain a Permit (see Appendix A) from Facilities or Real Estate and complete it in accordance with Appendix B.

- For in-house work, the employee's manager or foreperson shall function as the entry supervisor. The entry supervisor shall:
  - Prepare the work area for PRCS entry.
  - Complete entry permit.
  - Sign and authorize the work.
- For work by contractors, the manager, PM or TC shall initiate the Permit.
  - The PM shall coordinate the work with the Facilities manager, property owner, or TC.
  - The contractor entering the PRCS shall designate the entry supervisor. The entry supervisor shall:
    - Complete and sign the Permit in the presence of the manager or controlling contractor's competent person following the steps listed above (under in-house work).
    - Ensure the roles and duties of the entry team are made clear prior to the entry.
    - Report to the controlling contractor's competent person during the entry and following the conclusion of the entry.

5.4 A completed and authorized Permit shall be valid until:

- The end of the workers' shift or the work is completed, whichever comes first; or
- There is an emergency involving or affecting the work area.

5.5 The signed Permit shall be posted in the work area until the Permit is no longer valid or the work is completed.

5.6 During the entry, the entry supervisor shall stay in radio contact with the attendant. The attendant shall call the entry supervisor when the work is complete or in case of an emergency.

- In the case of an emergency, the entry supervisor shall:
  - Contact 911 and indicate that PRCS rescue is required
  - Contact Telecommunications at 33-911 or 212-263-911

5.7 The entry supervisor, and foreman or controlling contractor's competent person shall inspect the work area periodically during the work to ensure that the conditions of the Permit are maintained.

5.8 The manager or controlling contractor's competent person shall debrief the employees or contractor who completed the work regarding any challenges encountered during the work, and communicate identified issues to EH&S or the Sr. Director of NYULH-LI Engineering, as applicable.

5.9 When the work is completed and the authorized entrants have left the PRCS, all systems shall be returned to their original condition. The Facilities manager or TC shall check the work area and authorize systems to be put back into service.

5.10 The NYULH Permit shall be closed out or cancelled by the entry supervisor by filling out Section 10 of the Permit.

5.11 The foreman or controlling contractor's competent person shall return the Permit to the Facilities office or the TC.

- For in-house work, the foreman returns the Permit to the Facilities office.
- For work done by contractors, the controlling contractor's competent person returns the Permit to Facilities or the TC.

5.12 Facilities managers or Real Estate shall maintain Permits for completed work for at least one year.

6.0 Construction notifications

6.1 Prior to construction activities, the PM shall notify EH&S or the NYULH-LI Sr. Director of Engineering, as applicable, of any potential confined space or PRCS work within their site.

6.2 During construction activities, the controlling contractor's competent person shall notify the PM of the creation or modification of any PRCS (e.g., temporary

crawlspaces) and the PM shall notify EH&S or the NYULH-LI Sr. Director of Engineering, as applicable.

7.0 Confined space awareness training

7.1 Managers and the controlling contractor's competent person shall ensure that all personnel who participate in confined space work have confined space awareness training.

- Training for employees shall be conducted by Environmental Health and Safety or provided through completion of NYULH's eLearning module.

8.0 PRCS Training

8.1 Managers and the controlling contractor's competent person shall ensure that all personnel who participate in PRCS work have 8-hour confined space Entrant/Attendant/Supervisor training prior to assignment. The entry supervisor, attendant and authorized entrants shall be familiar with the:

- Requirements of this policy
- Proper preparation of a PRCS for entry
- Potential hazards encountered in a PRCS
- Use of proper safety equipment and PPE
- The duties and responsibilities of each member of the PRCS entry team
- Emergency procedures (e.g., incident and injury protocols)

8.2 Training shall be conducted:

- Before a worker is first assigned to PRCS entry
- Before a worker is assigned new PRCS tasks
- Whenever there is a change in procedures or new hazards are introduced
- Whenever there are deviations from the requirements of the policy, or there are inadequacies in a worker's knowledge or use of these procedures

8.3 Each department/division shall maintain training records for its employees.

- Records shall include the dates of training, subjects covered, names of employees trained, and name and signature of the trainer
- Records shall be maintained for 1 year past the last day of employment
- Copies of records shall be provided to EH&S upon request

9.0 **Program evaluation**

EH&S shall conduct an annual evaluation of the Program as part of the annual evaluation of NYULH's Environmental Safety Management Plan.

Appendix A	NYULH Confined Space Entry Permit
Appendix B	Instructions for Preparing a PRCS for Entry and Completing the Permit
Appendix C	List of Permit-Required Confined Spaces in Facilities Owned by NYU Langone

Issue date	03/2021
Replaces	12/2019
Reviewed by	E. Cintron, Real Estate R. Cohen, Facilities Operations N. Ejaz, NYULH-B Safety Officer S. Haney, Environmental Health and Safety A. John, Environmental Services B. Kenny, NYULH-LI, Engineering D. Resnick, Design and Construction D. Rubbo, NYULOH Engineering NYU Langone Hospital Environment of Care (EOC) Committee NYU Langone Orthopedic Hospital EOC Committee NYU Langone Hospital – Brooklyn EOC Committee NYU Langone Hospital – Long Island EOC Committee Family Health Centers at NYU Langone EOC Committee

Summary of Revisions

Revision date	Section	Changes
March 2021	Throughout	Changes NYU Winthrop to NYU Langone Hospital-Long Island
November 2019	Throughout	Change "confined space" to "PRCS" for clarity. Adds responsibilities of NYUWH Sr. Director of Engineering.
	1.0	Incorporates Winthrop and NYU Long Island School of Medicine
	1.0 and 3.1	Adds Environmental Services
	5.3	Reorganized, for clarity
	7.0	Adds awareness training
	Reviewed by	Adds review by NYU Winthrop Hospital
November 2017	Throughout	Updates logo and organizational references
	3.4 and 3.5	Updates responsibilities
	Appendix C	Updates PRCS locations at NYULH-B, Kimmel, and Science
February 2017	Application	Changes NYULMC to NYU Langone
	1.0	Defines NYU Langone

	2.0	Updates definitions Adds definitions for competent person and controlling contractor
	3.4, 3.5, 3.6	Updates responsibilities for forepersons, PMs, and controlling contractors
	4.0 and 5.0	Adds Lutheran Updates confined space entry procedures
	7.0	Updates training requirements
	Review by	Adds review by Lutheran Safety Officer, and HJD, Lutheran, and Lutheran Family Health Centers EOC Committees
	Summary of Revisions	Adds Summary of Revisions
	Appendix A-C	Updates appendices

NYULH Confined Space Entry Permit

SECTION 1: Entry Permit (valid for 8 hours only)		
Date:	**Start time:** AM/PM	**Expiration time:** AM/PM
Building:	**Location:**	
Job supervisor:	**Equipment to be worked on:**	
Reason for Entry:		
Location of nearest fire alarm pull station:	**Nearest telephone:**	
Rescue procedures: Attempt non-entry rescue. Call **911** and alert dispatcher of a confined space emergency**.** Then call NYULH telecommunications at 212-263-3911 (33911**).**		

SECTION 2: Permit Space Hazards		**SECTION 3: Hazard Elimination**
_____Oxygen Deficient/Enriched	_____Contact Irritant	_____Lockout/Tagout
_____Flammable Gases/Vapors/Liquids	_____Engulfment	_____Purge/Clean
_____Combustible Dust	_____Noise	_____Blank
_____Toxic Gases/Vapors (Specify)	_____Hot Work	_____Ventilation
_____Electrical/Mechanical Hazard	_____Heat/Cold Stress	_____Barriers
_____Chemical Hazard	Other:_____	Other:_____

SECTION 4: Personal Protective Equipment		**SECTION 5: Safety Equipment**	
_____Chemical Splash Goggles	_____Impervious Suit	_____Full Body Harness	_____Safety Line
_____Impervious Boots	_____Hard hat	_____Escape Bottle	_____GFCI
_____Hearing Protection	_____Respiratory Protection	_____Tripod/	_____Radios
_____Coveralls	_____Gloves	_____Low Voltage Tools	_____Fire Exting.
Other:_____	Other:_____	_____Explosion Proof Equipment	
Other:_____	Other:_____	_____Personal Monitor for Entrant	

SECTION 6: Atmospheric Monitoring (to be done prior to entry and continuously with recording every 30 mins)

Model:_____	**Serial #:**_____	**Monitor (Print):**_____
Field Check: ____Pass ____Fail	**Calibration Due:** _____	**Monitor (Sign):**_____

Parameter	**Acceptable Conditions**	**Initial Results**	**Time**	**Results**	**Time**	**Results**	**Time**	**Results**	**Time**
Oxygen	>19.5% and <23.5%								
LEL	<10% LEL								
H_2S	Contact EH&S								
CO	Contact EH&S								
VOCs	Contact EH&S								
Other:									
Other:									

SECTION 7: Communication Procedures Between Entrant(s) and Attendant		
_____Voice/Visual	_____Radio	Other:_____

SECTION 8: Personnel	**(PRINT NAME)**	**(SIGN NAME)**
Entry Supervisor		
Attendant		
Entrant		
Entrant		

SECTION 9: Entry Authorization

All training requirements have been met ☐ (Permit cannot be authorized if this box is unchecked)

I have reviewed the work authorized by this permit and the information contained here-in. Written instructions and safety procedures have been received and are understood. Entry cannot be authorized if any questions have been answered "No." This permit is not valid unless all appropriate items are completed.

Entry Supervisor's signature:	Date:	Time:
Manager's signature:	Date:	Time:

SECTION 10: Entry Cancellation

Reason for Cancellation:	_____Work Complete	_____Emergency	Other:_____
Entry Supervisor's signature:		Date:	Time:
Manager's signature:		Date:	Time:

Instructions for Preparing a PRCS for Entry And Completing the Permit

SECTION 1

When it is determined that a permit-required confined space (PRCS) must be entered to perform work, the entry supervisor will complete Section 1 of the Permit. The REASON FOR ENTRY section should state the work to be completed in the PRCS (e.g., welding).

SECTION 2

Permit Space Hazards

The entry supervisor will examine the PRCS for potential hazards and will complete Section 2 of the Permit. EH&S, or the NYULH-LI Sr. Director of Engineering, or an authorized consultant shall be contacted for assistance in identifying potential hazards.

SECTION 3

Hazard Elimination

The entry supervisor, along with other applicable personnel, shall eliminate the feasible hazards and complete Section 3 of the Permit. Examples of hazard elimination include:

Lockout/Tagout

OSHA-compliant lockout/tagout procedures should be followed. If there is no equipment requiring lockout/tagout N/A should be checked.

Equipment purging and cleaning

The PRCS should be purged of its contents and cleaned if necessary to protect workers who will enter it. If the PRCS contained chemicals, or chemicals are used to clean it, EH&S or NYULH-LI Hospitality Services, as applicable, should be contacted for disposal of these chemicals, cleaning solution, and any rinse water that may contain chemical contaminants. If no cleaning is necessary, N/A should be checked. If the equipment cannot be cleaned, EH&S or the NYULH-LI Sr. Director of Engineering, as applicable, should be contacted for any special procedures that may be necessary.

All lines disconnected, blanked or plugged

All pipelines that are connected to a PRCS must be disconnected, blanked or plugged so that no contaminants will enter the PRCS during entry. Where the pipeline cannot be completely isolated (e.g., sewers), it shall be isolated to the extent possible to reduce contaminants and sudden flooding.

Instructions for Preparing a PRCS for Entry And Completing the Permit

Ventilation

Continuous forced air ventilation is necessary where the atmosphere in a PRCS does not meet acceptable levels for oxygen and air contaminants. All ventilation equipment must be explosion proof and draw in fresh air at standard temperature and pressure. Where forced air ventilation does not maintain an acceptable atmosphere, the use of air purifying or supplied air respirators is necessary, which requires involvement of EH&S or an authorized consultant.

Barriers

A barrier shall be installed to prevent anyone from falling into the PRCS and to keep pedestrians away from it.

SECTION 4 and 5

Personal Protective and Safety Equipment

Based on an assessment of the hazards in the PRCS, workers must be supplied with the necessary personal protective and safety equipment.

Lighting should be provided to illuminate the work area inside the PRCS. All lighting must be explosion proof.

The attendant and entrant(s) should be provided with radios to communicate during the operation.

Other Equipment that may be necessary

The entry supervisor should check on the Permit any other equipment that the workers may need to enter the PRCS. This may include, but is not limited to, the equipment listed in Sections 4 and 5 of the Permit

SECTION 6

Atmospheric Monitoring

Personnel shall use a recently calibrated continuous air monitor to do a pre-entry atmospheric check in the PRCS for oxygen deficiency, lower explosive limit (L.E.L.), carbon monoxide (CO) and hydrogen sulfide (H_2S). The percent oxygen should be 19.5-23.5%. The L.E.L. should be less than 10%. For CO, H_2S, and other air contaminants, contact EH&S or the authorized consultant to determine the levels not to be exceeded. Additional tests for toxicity shall be done for chemical present within, or introduced into the PRCS. The person conducting the test will sign next to the results for the pre-entry

Instructions for Preparing a PRCS for Entry
And Completing the Permit

atmospheric checks when the levels are within the prescribed limits. Atmospheric monitoring shall be conducted continuously during entry and recorded every 30 minutes during the entry. If any of these test results are not in the prescribed range, forced fresh air ventilation into the PRCS shall be used until the required levels are met.

SECTION 7

Communication Procedures

The entry supervisor should determine the most effective way for the authorized entrant(s) and the attendant to stay in contact. This may include, but is not limited to, voice or visual communication or two-way radio communication.

Cell phones shall not be used for communication within a PRCS.

SECTION 8

Personnel

The entry supervisor will list the authorized entrant(s) that will enter the PRCS. The entry supervisor will also write the name of the attendant that will be monitoring the entrants inside the PRCS, informing the entrants of any change in the continuous air monitor, and using the radio for keeping the entry supervisor informed or for calling for rescue. The entry supervisor should review the Permit and procedures to be used in the PRCS with the entrant(s) and attendant. The entry supervisor will sign the permit and contact the manager for authorization to enter the PRCS. The manager will sign and enter the date and time on the Permit.

During the work, the entry supervisor will ensure the Permit is readily available at the PRCS. After the work is done or the Permit is no longer valid, it is returned to the Facilities office or TC.

EMERGENCY PROCEDURES

In the event of a PRCS emergency, the attendant shall contact the entry supervisor and request assistance. The attendant shall attempt non-entry rescue utilizing the retrieval system. The attendant shall not try to enter a PRCS to assist a downed worker. If other workers are in the area of the PRCS, their assistance should be requested. If the entrant is not able to leave the PRCS and a qualified rescue vendor is not present to perform an entry rescue, the entry supervisor shall call 911 and inform the operator that a confined space rescue is required. The entry supervisor shall then contact NYULH Telecommunications (212.263.911). Responding NYULH employees should assist in non-entry rescue, but should not attempt to enter the PRCS.

Instructions for Preparing a PRCS for Entry And Completing the Permit

POST PRCS ENTRY PROCEDURES

After the PRCS entry work is completed, the space should be returned to its original condition in accordance with Facilities' or the building manager's procedures. All lines should be reconnected, unblanked, or unplugged. The Facilities' manager, TC or controlling contractor's competent person should check and authorize the PRCS to be put back into service.

All personal protective and safety equipment that was used in the PRCS entry should be cleaned and returned to storage for future use. If disposable personal protective equipment was used and contaminated with chemicals, it should be placed in a container and given to EH&S for proper disposal (as per Safety Policy No. 108a, Hazardous Waste from Contractors (Construction and Building Maintenance).

If necessary, showers should be provided for workers after the PRCS entry operation is completed.

List of Permit-required Confined Spaces in Facilities Owned by NYULH

Main Campus and Immediate Vicinity		
Building	**Type of Space**	**Location**
222 E. 41 St.	Fuel oil tanks 001 and 003	B-040
660 First Ave.	Domestic water tank	Roof
	Fuel oil tank	Cellar
	Crawl Space	3rd floor Radiology Computer Storage Room (above Cytology Lab)
673 First Ave. (CMC and OSC)	Fuel oil tank FOT-1	Parking garage
Ambulatory Care Center (ACC)	Fuel oil tank ACC-01	C-21
Clinical Cancer Center	Domestic water tank	Roof
	Fuel oil tank	LL-213
Coles	Acid neutralizing tanks	G100
Energy	Boiler 1	Entrance - 4th floor Fan – 4th floor North mud drum (two hatches) – 4th floor North steam drum (two hatches) – 4M Wind box – 4th floor
	Boiler 2	Entrance – 4th floor Fan – 4th floor South mud drum (two hatches) – 4th floor South steam drum (two hatches) – 4M Wind box – 4th floor
	Sump pits (3)	Ground
	Exhaust system	Access hatch for exhaust breach, Boiler 1 – 4th floor Access hatch for exhaust breach, Boiler 2- 4th floor Exhaust duct for gas turbine/boilers – 4M Gas turbine exhaust (two hatches) – 4th floor HRSG exhaust Stack 1 – 4th floor HRSG exhaust Stack 2 – 4th floor Roof exhaust access hatch – 5/Roof
	Fuel oil tank	Ground
	Heat Recovery Steam Generator (HRSG)	Ammonia injection chamber – 4th floor Center (two hatches) – 4th floor CO catalyst chamber – 4th floor Mud drum east (two hatches) – 4th floor Mud drum west (two hatches) – 4th floor Steam drum – 4M
	Miscellaneous	Ammonia tank - 4th floor by Stair B Blow down tank – 4th floor

List of Permit-required Confined Spaces in Facilities Owned by NYULH

		Condensate polisher, east – 4th floor Condensate polisher, west – 4th floor Condensate receiver – 4th floor De-aerator – 4M Hatch on exhaust breach for gas turbine – 4M Water storage feed tank – 4M
Greenberg Hall (GBH)	Sump pits > 4 feet deep (2)	SC2 Mechanical Room
Kimmel Pavilion	CoGen flue	6 hatches on the 6th floor 1 hatch on 19th floor
	Domestic water tank	20th floor
	Ejector pits (4)	Ground floor, Room 706B and 850D
	Elevator pits	Ground floor
	Flood barrier catch basins (5)	Outside, 1st Ave. side of bldg.
	AST fuel oil tank (3 hatches)	Ground floor, Room 706
	Storm Water Retention Tank	Outside, 1st Ave. side of building.
	Sump pits > 4 feet deep	C-044 and C-070
Medical Science Building (MSB)	Acid neutralizing tanks	MS 191
	Domestic water tanks (2)	10th floor
	Sump pits > 4 feet deep	C-06, C-031A, and C-068
Science Building	Acid neutralization tank	C-12
	Crawl Space	G-06 inside Conference Room Closet
	Domestic water tanks (2)	Roof
	Sump pits > 4 feet deep	C-03 and C-13
	Elevator pits	Ground floor
	Flood barrier catch basin (1)	30th Street
	Fuel tank (2 hatches)	C-04
	Gasket space between Science and MSB	220 (fire pump MER)
	Storm water retention tank	C-05
Schwartz Lecture Hall	Sump pits > 4 feet deep	Cellar MER next to elevator machine room
Skirball	Acid neutralizing tanks (2)	1st floor – north and south (outside by flag pole
	Domestic water tanks (2)	25th floor
	Fuel oil tanks (2) HCC-01 SK-01	Skirball Ground Animal Facility Oil Tank Room, west Oil Tank Room, east
	Reverse osmosis tank	6th floor MER
	Sump pits > 4 feet deep (10)	Ground floor - Steam Room (3) Ground floor - Outside Gas P.O.E. Room (2) Ground floor – Sump Pump Room in AF (3) Ground floor – MER (2)
Smilow	Acid neutralizing tank	Sump Room C-27 (in morgue)

List of Permit-required Confined Spaces in Facilities Owned by NYULH

	Fuel oil tanks	SM01D: 1st floor - 105A SM01M: Mezzanine - MZ-08
	Sumps pits > 4feet deep (3)	C-39 and C-17 (in morgue)
Tisch	Domestic water tank (2)	20th floor
	Utility shaft	Ground floor, adjacent service elevators
	Sump pits > 4 feet deep	C 21A, C 56, and C-160
Translational Research Building	Fuel oil tank TRB-01	Basement MER

NYU Langone Orthopedic Hospital	
Type of Space	**Location**
Domestic water tanks	C1, C-119 (cold water) C1, C-119 (hot water)
Ejector pits > 4 feet deep	SC3, C-304 (men's locker room) SC3, C-316, (maintenance shop)
Fuel oil tank	SC3, by passenger elevators
Storm pit	SC3, C-304 (men's locker room) SC3, C-316, (maintenance shop)

NYU Langone Hospital - Brooklyn	
Type of Space	**Location**
Boilers (3)	Room 1181
Domestic water tank	7th floor roof
Elevator pits	1st floor
Sump pits > 4 feet deep	1st floor Switch Gear Room (inside Electrical Room) 1st floor LB 1523
Air handler MER	1st floor Stair H

NYU Langone Hospital - Long Island Main Campus	
Type of Space	**Location**
Boilers (3)	Laundry Building
Deaerator tank (2)	Laundry Building
Elevator pits	Lower Level
Sump pits > 4 feet deep	MER's 2, 4, 10, 11 & 35
Fuel Oil Tanks	Tank #'s 5816, 0070, 5817 & 0009
Boiler Stack	Laundry Building

NYU Langone Hospital - Long Island Research Building	
Type of Space	**Location**
Sump Pit	Underground Garage

List of Permit-required Confined Spaces in Facilities Owned by NYULH

NYU Langone Hospital - Long Island 120 Mineola Blvd	
Type of Space	**Location**
Pit for chiller	Back driveway
Chillers	Rooftop

Sterling Forest (formerly NIEM)	
Type of Space	**Location**
Fuel storage tanks (2)	Outdoors, underground