Steam Manholes Permit Required Confined Space Entry Permit													
1. Steam Manholes Entry Procedure and Permit **All shaded areas must be completed by the Entry Supervisor or Entrant**													
2. Work to	be Performe	d and L	ocation:			3. Date Issued: / /			/ /				
						Time Issued: :			: 🛛 a.m.	. 🗆 p.m.			
4. Permit	Space Hazard	<b>Is</b> (X = P	otential Hazard o	r Testing Requireme	nt)	•							
х	Oxygen - than or e			an or equal to 19.5%	OR greater				cal Hazards (Pneuma alling Objects, Etc.)	atic, Hydraulic, Electri	ical, Chemical,		
х	Flammat		es or Vapors - haz	ardous when greater	than 10% of			Engulfme	ent Potential				
х	Hydroge	n Sulfide	e - hazardous whe	en greater than 10 PF	PM		X Physical Hazards - (bees, insects			cts, spiders, heat during the summer)			
Х	X Carbon Monoxide - hazardous wher for when welding or near a fuel com						X Confined Space Configuration, Layout or Arrangement				nent		
	Other To	oxics:											
5. Additional Permits or Forms (Please attach if required)													
Hot Work Permit: DYES DNO DN/A LOTO / Hazardous Energy Control Procedure: DYES DNO DN/A Other:													
6. Equipment Required for Entry & Work (Check box when complete)													
			body harness, other PPE for heat if necessary (gloves, long sleeves, etc.).										
Atmospheric Testing 4-Gas Meter r the space.				quired for testing. Test atmosphere in manhole by using stratified method of checking atmosphere at different levels within									
			this space under normal atmospheric conditions. If contaminant levels are outside limits, ventilate space before entry.										
Ventilation Equipment changes will oc				is required before and during entry unless the space is proven to be free of atmospheric hazards or no atmospheric cur due to work operations or manhole conditions.									
Rescue	Equipment			ripod with 4-way hauling system to pull out entrant in the event of an emergency. Entrant must wear harness and be le 4-way hauling system.							ness and be		
7. Communication method used by attendants and			entrants (Check all th							vacuating entrants in			
	Radio					_	t e	The assigned confined space attendant is responsible for evacuating entrants in the event of an emergency by means of vocal communication or retrieval equipment used for the entry. At no time will the attendant enter the confined					
						Ċ	space. In the event the attendant is unable to evacuate the entrant(s), the Charlotte Fire Department will be notified by UNC Charlotte Police Dispatch at 704-687-2200 to provide rescue assistance. Upon the arrival of rescue						
	Other zed Entrants							otable information.					
11. Preparation for Entry (Check boxes when co				nplete)									
	Notify a	Notify affected department of service interruption and complete the					Confined Space Entry Permit and any other required permits and forms.						
Inspect all required equipment, to entry operations.				pols and PPE prior to entry. Barricade the area to prevent unauthorized entry or access. Setup necessary equipment for									
				y is isolated per the specific Hazardous Energy Control Procedure. All steam lines, valves and controls must be fully rsity steam service discontinued before entering the manhole. Allow lines to cool as much as possible before entering the									
				ep 9 and Sign in Attendants in Step 10.									
	entry. P	Take a preliminary atmospheric reading with approved 4-gas meter and reco entry. Periodically record sample readings in Step 12. Ventilate as necessary are checked.						ecord reading on Step 12. Atmosphere should be continuously tested during sary. Test atmosphere from the bottom to the top of the manhole so that all levels					
		Upon eliminating or controlling all hazards and the Entry Supervisor signing S							Step 13, proceed to make entry.				
12. Atmosphere Testing Record Acceptable Conditions				Pre-Entry Results	Entry #1 Res	ults	Entry #	2 Results	Entry #3 Results	Entry #4 Results	Entry #5 Results		
Time of Sampling													
$CH_4-Methane$ - Less than 10% of LEL / LFL													
O <sub>2</sub> - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%													
H <sub>2</sub> S - Hydrogen Sulfide - < than 10 PPM													
CO - Carbon Monoxide - < than 35 PPM													
Other Tox	ic:												
Tester Ini	tials												
	rization by En			ion and pages		vidert	or cot-	ntry or -1 -	ork in this states	holo confined			
Printed Na		precautio		ken and necessary equipment is provid gnature			ded for safe entry and work in this steam man Date			Time	□a.m. □p.m.		
14. Permit	14. Permit Cancellation (Complete at the end of job not to exceed 24 hours)								Date Time □a.m. □p.m.				
This permit must be posted at the job site One Copy to Department's File and One Copy to EHS Office (Fax 7-5302 or EHS Building)													