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 t	o be	Performed and L	ocation:		3. Date Issued: / /							
					Time Issued: : □ a.m. □ p.m.							
4. Permit	Space	•		r Testing Requiremen	,							
Х	than or equal to 23.5 %.								cal Hazards (Pneuma alling Objects, Etc.)	itic, Hydraulic, Electr	ical, Chemical,	
Flammable Gases or Vapors - haz LFL / LEL.			ardous when greater	than 10% of			Engulfme	ent Potential				
X Hydrogen Sulfide - hazardous whe			n greater than 10 PPM			X	Physical Hazards - (bees, insects, spiders, heat during the summer)					
X	X Carbon Monoxide - hazardous when for when welding or near a fuel comb						X	Confined Space Configuration, Layout or Arrangement				
Other Toxics:												
5. Additi	onal	Permits or Form	ns (Please attach	if required)								
Hot Work Permit: □YES □NO □N/A LOTO / Hazardous Energy Control Procedure: □YES □NO □N/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 re 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				s 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.								
Set up rescue tripod with 4-way hauling system to pull out entrant in the event of an emergency. Entrant must wear harner connected to the 4-way hauling system.									ness and be			
7. Commu	unicat	ion method used	by attendants and	entrants (Check all th	nat apply)	8. Co		Space Re		ant in reaponaible for a	vocuating entrants in	
	Rad						th	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 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				
□ Voice					c							
Other						personnel, the attendant should				rief the rescuers of any notable information.		
9. Author	rized	Entrants (List by	name)			10. A	Authoriz	ed Attend	ants (List by name)			
11. Prepa	aratio	n for Entry (Ched	k boxes when cor	nplete)								
		Notify affected department of service interruption and complete the Confined Space Entry Permit an							nit and any other req	uired permits and for	ms.	
		Inspect all required equipment, tools and PPE prior to entry. Barricade the area to prevent entry operations.						event unauthorized entry or access. Setup necessary equipment for				
Ensure that all hazardous energy i blocked and controlled, or Univers				is isolated per the specific Hazardous Energy Control Procedure. All steam lines, valves and controls must be fully sity steam service discontinued before entering the manhole. Allow lines to cool as much as possible before entering the								
	manhole. Sign in Authorized Entrants in Step 9 and Sign in Attendants in Step 10.											
		Take a preliminary atmospheric reading with approved 4-gas meter and record reading on Step 12. Atmosphere should be continuously tested during entry. Periodically record sample readings in Step 12. Ventilate as necessary. Test atmosphere from the bottom to the top of the manhole so that all levels are checked.										
		Upon eliminating or controlling all hazards and the Entry Supervisor signing Step 13, proceed to make entry.										
12. Atmosphere Testing Record Acceptable Conditions			Pre-Entry Results	Entry #1 Resu	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 ₂ - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%												
H ₂ S - Hydrogen Sulfide - < than 10 PPM												
CO - Carbon Monoxide - < than 35 PPM												
Other Toxic:												
Tester In												
13. Authorization by Entry Supervisors I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this steam manhole confined space.											.	
	Printed Name Signature								Pate	Time	□a.m. □p.m.	
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)												