Electrical Manholes Permit Required Confined Space Entry Permit												
1. Electrical Manholes Entry Procedure and Permit **All shaded areas must be completed by the Entry Supervisor or Entrant**												
2. Work to	be Performed and I	_ocation:			3. Date Issued: / /			/ /				
			Time Iss			ne Issue	ued: : □ a.m. □ p.m.					
4. Permit S	pace Hazards (X =	Potential Hazard o	r Testing Requireme	nt)								
Х	Oxygen - hazar than or equal to	an or equal to 19.5%	OR greater	Х			al Hazards (Pneuma alling Objects, Etc.)	atic, Hydraulic, Electri	ical, Chemical,			
X Flammable Gases or Vapors - haz LFL / LEL.			ardous when greater	r than 10% of			Engulfme	nt Potential				
х	Hydrogen Sulfid	e - hazardous whe	en greater than 10 PF	PM			Physical Hazards - (bees, insects, spiders, heat during the summer)					
х			greater than 50 PPM (oustion source (cars, ut	х	[Confined Space Configuration, Layout or Arrangement						
	Other Toxics:											
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)												
		Eye protection,	body harness, other PPE for heat if necessary (gloves, long sleeves, etc.)									
Atmospheric Testing 4-Gas Meter ret the space.			quired for testing. Test atmosphere in manhole by using stratified method of checking atmosphere at different levels within									
Respiratory Protection Not required for			this space under normal atmospheric conditions. If contaminant levels are outside limits, ventilate space before entry.									
🗆 Ventila	tion Equipment		s required before and during entry unless the space is proven to be free of atmospheric hazards or no atmospheric									
Set up rescue tripod with 4-way hauling system to pull out entrant in the event of an emergency. Entrant must wear harnes								ness and be				
Connected to the 4-way hauling system. Communication method used by attendants and entrants (Check all that apply) S. Confined Space Rescue												
	Radio	· · · · · · · · · · · · · · · · · · ·					The assigned confined space attendant is responsible for e the event of an emergency by means of vocal communication					
□ Voice					spa	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						
	Other			704-687-2200			00 to provide rescue assistance. Upon the arrival of rescue the attendant should brief the rescuers of any notable information.					
9. Authoriz	ed Entrants (List by	name)		uthorized Attendants (List by name)								
11. Prepara	ation for Entry (Che	ck boxes when co	nplete)									
		Notify affected department of service interruption and complete the Confined Space Entry Permit and any other required permits and forms.										
	entry operation	entry operations.					e the area to prevent unauthorized entry or access. Setup necessary equipment for					
			is isolated per the specific Hazardous Energy Control Procedure. High voltage equipment energy control may be needed tions, PPE and training. Check manhole lid for elevated temperature and pressure by touching and lifting the lid slightly.									
	5		ep 9 and Sign in Attendants in Step 10.									
		eading with approved 4-gas meter and record reading on Step 12. Atmosphere should be continuously tested during readings in Step 12. Ventilate as necessary. Test atmosphere from the bottom to the top of the manhole so that all levels										
	· · ·	° °	hazards and the Entry Supervisor signing Step 13, proceed to make					o make entry.				
12. Atmosphere Testing Record Acceptable Conditions			Pre-Entry Results	Entry #1 Resu	ults E	ntry #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 Initials												
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 electrical manhole confined space.												
Printed Na			gnature		Date			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.				□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)												