

# U.S. Army Corps of Engineers Safety Inspection Checklist Underground Construction

Date of Inspection

Location (Plant or Facility)	Contract Number
Contractor Name	Project Name
Inspector Name (Print)	Inspector Signature

***This checklist serves as a guide only, it does not replace or eliminate the need to comply with the requirements set forth in Engineering Manual 385-1-1, Safety and Health Requirements Manual, dated 15 September 2008. The references included in this checklist correspond to the applicable sections of EM 385-1-1.***

Item Description	REF	Yes	No	N/A	Remarks (Any NO or N/A item)
1. Are all underground openings controlled to prevent unauthorized entry?	26.A.01.a				
2. Does each location have a check-in/-out system that will ensure that above-ground personnel can determine the identification of all underground personnel?	26.A.02				
3. Are oncoming shifts informed of any hazardous occurrences or conditions that have affected or might affect employee safety?	26.A.03				
4. Is there a system in place for effective means of communications while working underground?	26.A.04.a-e				
5. Has an emergency rescue plan been incorporated into the APP or AHA?	26.A.05				
5a. Has the emergency rescue plan been reviewed by all affected personnel and periodically drilled to ensure its efficacy?	26.A.05				
6. Are self-rescuing/emergency respirators immediately available to all employees at workstations in underground areas where they may be trapped by smoke or gas?	26.A.05.e				
7. Is there at least one designated person on duty above ground whenever personnel are underground to be able to keep an accurate account of employees underground and securing immediate aid in case of emergency?	26.A.05.f				
8. Has the designated person been relieved of other duties that could affect his emergency response duties?	26.A.05.f				
9. Has a rescue team been established?	26.A.06.a-e				
10. Is there a fully equipped first-aid station and emergency transportation provided at each underground construction project?	26.A.08.a				
11. Have all electrical systems that are used in hazardous locations been approved?	26.A.09.a				
12. Is there a program in place for testing all rock bolts for tightness?	26.A.10.a				

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13. Have all drilling and associated equipment to be used during a shift been inspected before each shift by a competent person?	26.A.10.d				
14. Are employees and equipment protected from fall material with the use shoring, fencing, head walls, and shotcreting when gaining access to portal openings?	26.A.11				
15. Are employees protected from unsupported sections of the tunnel?	26.A.11.h				
16. Are all vehicles and mobile equipment that is required to move in and out of the underground construction area equipped with revolving, flashing amber lights that are mounted on top to be visible in all directions?	26.A.14				
17. Are all underground construction operations in compliance with the hazardous classifications requirements?	26.B.01				
18. Has only equipment approved for the hazardous location used in gassy operations?	26.B.03.a				
19. Are air monitoring devices inspected, calibrated, maintained, and used in accordance with the manufacturer's instructions?	26.C.01.a				
20. Is the atmosphere in all underground work areas tested as often as necessary to assure that the atmosphere at normal atmospheric pressure contains at least 19.5% oxygen and no more than 22% oxygen?	26.C.01.d				
21. Is the atmosphere in all underground work areas tested quantitatively for CO, nitrogen dioxide, hydrogen sulfide, and other toxic gases, dusts, vapors, mists, and fumes as often as to ensure that the PEL are not exceeded?	26.C.01.e				
22. Whenever hydrogen sulfide is detected in an amount exceeding 10 ppm, is a continuous sampling and indicating hydrogen sulfide monitor used to monitor the affected work areas?	26.C.02.b				
23. Is fresh air supplied to all underground work areas in sufficient quantities to prevent dangerous accumulation of dusts, fumes, mists, gases, or vapors?	26.C.03.a				
24. Is there a fire prevention plan in place?	26.D.01				
25. Are fire extinguishers provided and maintained?	26.D.02.a				
26. Are signs posted prohibiting smoking and open flames in areas having fire or explosion hazards?	26.D.03				
27. Are employees aware that gasoline will not be taken, stored, or used underground?	26.D.05				

