

U.S. Army Corps of Engineers Safety Inspection Checklist Electric Welding/Cutting Operations

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. Does the welding unit have a compatible fire extinguisher in the immediate vicinity?	10.C.01				
2. When welding operations are near combustible materials, has a Hot Permit been issued?	10C.02 10.C.03.c				
3. Is a qualified fire watch assigned to guard against fire after welding and instructed in fire fighting equipment?	10.C.04 09.J.03				
4. Is adequate ventilation or correct respirators provided for the welder and helper?	10.B.03-7				
5. Is cutting over combustible flooring protected?	10.C.05				
6. If the floor is wet or damp are personnel protected from potential shock hazards?	10.C.05				
7. Are noncombustible barriers installed below welding or burning operations in a shaft or raise?	10.C.07				
8. Are fire resistant guards installed if welding near combustible walls, partitions, ceilings, or roofs?	10.C.08				
9. Have welding or cutting drums, tanks, or containers that have contained hazardous materials been cleaned first?	10.C.11				
10. Is hot tapping, cutting, welding or cutting on a flammable gas or liquid pipeline done IAW API standards?	10.C.12				
11. Is cutting, welding or heating near a sprinkler head protected before commencing operations?	10.C.13				
12. Are manual electrode holders the capacity designed for arc welding and cutting rated for the current?	10.E.02.a				
13. Are welding cables insulated, flexible and capable for current requirements?	10.E.03				
14. Are frames of arc welding and cutting machines grounded by a third wire or by a separate wire?	10.E.04				

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15. Are neither connection terminal of the welding generator bonded to the frame of the welder?	10.E.05				
16. Are welding leads not allowed to contact metal parts supporting suspended scaffolds?	10.E.09				
17. Are welding machines shut down when leads are not attended?	10.E.11				
18. Are arc welding and cutting operations shielded by noncombustible or flameproof screens to protect employees and visitors from direct rays?	10.E.12				
19. Are welding cables spread out before use and not coiled?	10.E.13				
20. Are all electric welding or cutting operations kept at least 200 feet from chlorinated solvents unless shielded?	10.F.01				
21. Are personnel protected who are exposed to radiation to prevent skin burns and damage by ultraviolet rays?	10.F.03				
22. Are welding helmets and hand shields free of leaks, cracks, openings or reflective surfaces?	10.F.03				
23. When gas metal arc welding on stainless or chrome alloy or chrome coated metal, are personnel protected by an approved local exhaust ventilation system to reduce to permissible limits of exposure? (Airline respirators may be used to assist with reductions)	10.F.04				

Other Remarks