

ADVANCED MEDICAL SYSTEMS OPERATING PROCEDURE

DEPLETED URANIUM HANDLING PROCEDURE

ISP-19 Rev. 1/95

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1.0 PURPOSE: To provide a procedure for the safe handling of depleted Uranium, a radioactive material, during the manufacturing process for Cobalt teletherapy equipment.

2.0 PRECAUTIONS AND LIMITATIONS:

2.1 This procedure applies to the following parts:

C-46879	Uranium Shield
B-46411	Uranium Shutter Insert
C-58429A	Top Shield
C-58531A	Barrel Shield
C-58430	Wheel Shield

These parts are purchased already cast, machined, drilled and nickel plated. They present no hazard to personnel or property.

2.2 White gloves are to be worn at all times when it is necessary to handle these parts.

2.3 All manufacturing operations shall occur at facilities which are licensed to possess and use depleted Uranium.

3.0 INSTRUCTIONS:

3.1 Receiving

3.1.1 Upon receipt of a shipment of depleted Uranium parts, open the shipping containers and verify the quantity.

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Date: 1-24-95

3.1.2 Verify that a durable tag with the Radiation Symbol and the words "Caution Radioactive Material" is affixed to each container.

3.1.3 Complete receiving report and move the parts, in the container, to the Inspection Department.

3.2 Inspection

3.2.1 Remove the parts from the container and inspect to the print. Exercise care so as not to scratch through the nickel plating.

3.2.2 After inspection, replace the parts into the container and move the container to the Stock Room.

3.3 Storage

3.3.1 The parts are to be stored in a locked cabinet or container. The cabinet or container shall be clearly marked with the Radiation Symbol and the words "Caution Radioactive Material".

3.4 Sub Assembly

3.4.1 Part C-46879

a. Remove from storage and bolt it into the brass head casting which has attached a tag with the Radiation Symbol and the words "Caution Radioactive Material".

b. Proceed to have this subassembly welded, lead filled and final machine.

3.4.2 Part B-46411

a. Remove from storage and place the part inside the shutter rotor assembly (Part D-16423B).

b. Proceed to weld, lead fill and machine this assembly.

- c. Etch the assembly with the words "Caution Radioactive Shielding - Uranium".

3.4.3 Part C-58429A

- a. Remove from storage and bolt the part into the brass head casting.
- b. Proceed to braze the top cap of the head on, and have the subassembly lead filled and final machine.
- c. Attach the Radiation Symbol tag to the head.

3.4.4 Part C-58431A

- a. Remove from storage and secure with screws into the shutter plug assembly (Part D-182546A).
- b. Proceed to braze, lead fill and final machine.

3.4.5 Part C-58430

- a. Remove from storage and place in the shutter wheel assembly (Part E-182548).
- b. Proceed to weld, lead fill and final machine.

3.5 Shipment to Vendors

- 3.5.1 Only vendors possessing a valid Radioactive Material license may receive these parts and subassemblies containing these parts.
- 3.5.2 Ship only the number of parts required for the specific job.
- 3.5.3 Remind the vendor that no machining of the depleted Uranium is required or permitted.