

ADVANCED MEDICAL SYSTEMS OPERATING PROCEDURE

CONTROL OF TRANSIENT COMBUSTIBLES

ISP-15 Rev. 1/95

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- 1.0 PURPOSE: To establish the administrative controls for the use of essential transient combustible materials, the temporary staging of transient combustibles and control of hot work (i.e., welding and cutting operations).
- 2.0 PRECAUTIONS AND LIMITATIONS:
- 2.1 This procedure applies to transient combustible materials placed or staged inside a Controlled Area.
 - 2.2 Limitations and controls are placed on transient combustibles to avoid unnecessary fire hazards and to prevent overtaxing fire suppression capability.
 - 2.3 The handling, use and temporary staging of ordinary transient combustible materials or other combustible supplies shall be governed by the RSO.
 - 2.4 The RSO is responsible for control of transient combustibles and hot work in Restricted Areas.
 - 2.5 The RSO is responsible for review of designated storage areas to determine limitations of existing fire protection features and/or recommend additional fire protection features.

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Approved by: *R Meschter*

Date: 1-29-95

3.0 INSTRUCTIONS:

3.1 Transient Combustibles

3.1.1 General provisions for the use of transient combustibles are as follows:

- a. Transient combustibles should be removed or protected from ignition sources in all areas.
- b. In accordance with radwaste ALARA concerns, combustible packing materials should be removed or containerized prior to transport of the item into its appropriate storage area.
- c. The use and storage of flammable and/or combustible liquids, such as copier toner and cleaning supplies, and ordinary combustibles in office areas do not require authorization by the RSO. Flammable/combustible liquids in office areas must be in their original shipping container or other approved flammable liquid container.

3.1.2 The following areas should be reviewed by the RSO prior to staging transient combustibles. In all cases, the staging is for work to be performed and not for storage of transient combustibles.

- a. Isotope Shop Area.
- b. Hot Cell Ventilation Room.
- c. Clean Equipment Room.
- d. Decontamination Room.
- e. Basement Areas.
- f. Isotope Airlock.

3.2 Special Requirements for Handling Flammable Liquids

3.2.1 All AMS employees must follow the guidelines for handling flammable liquids.

- a. When flammable liquid is being dispensed, a well ventilated area, free from possible ignition, should be provided between the dispensing equipment and the container being filled.
- b. All spills involving flammable liquids must be disposed of quickly and safely by appropriate means such as absorption and cleaning. Spills should be reported to the RSO immediately.

NOTE: Any material used to clean a spill should be disposed of properly.

- c. While flammable liquids are not being used, the contents should remain covered in their containers.
- d. Smoking should not be permitted in any area where flammable liquids are stored or handled.
- e. UL listed safety cans should be used for storing and dispensing small quantities of flammable liquids in the facility.
- f. When not in use, safety cans containing flammable liquids should be stored in a flammable liquids storage cabinet. Cabinets shall be labeled in conspicuous lettering "Flammable Storage Cabinet".

3.3 Special Requirements for Handling Flammable Gases

3.3.1 All AMS employees must follow the guidelines for handling flammable gases.

- a. In areas where flammable gases are used and/or handled, smoking should not be permitted.
- b. Flammable gases should be removed from the buildings or returned to a designated storage area upon completion of the job activity.

3.4 Special Requirements for Handling Flammable/Combustible Materials

- 3.4.1 Ordinary combustible limits, up to one hundred (100) pounds, are intended to identify single trash collection containers that are emptied on a regular basis. Ordinary combustibles staged to support job activities must be stored in non-combustible containers and removed at the completion of the job activity.
- 3.4.2 Protective clothing limits, up to fifty (50) sets, are intended to allow short term staging of protective clothing only when immediately needed to support non-routine work activities.
- 3.4.3 To allow for decontamination of the Hot Cell and associated equipment, approximately one (1) box of cleaning towels can be in the Hot Cell. To reduce ignition sources during source related activities, the paper towels should be removed or stored in covered containers to prevent ignition.
- 3.4.4 The RSO or designee should be contacted anytime flammable/combustible materials are staged in safety-related areas to determine the need for authorization.

3.5 Designated Storage Areas

- 3.5.1 AMS personnel in need of designated storage areas should notify the RSO for instructions.
- 3.5.2 The RSO or designee should inspect areas where combustibles are stored, on a monthly basis, to ensure that all containers are properly sealed.
 - a. This inspection should be documented on Form ISP-15A and Form ISP-15B.
 - b. Any deficiencies should be documented on Form ISP-15C.

3.6 Conducting Hot Work

- 3.6.1 All personnel should notify the RSO prior to commencing any hot work at the London Road facility. Under most circumstances, a fire watch will be utilized.

- 3.6.2 The primary responsibility of the fire watch is to ensure the hot work does not cause ignition of any material other than what is being worked on. This responsibility relates to the area of work and adjacent areas (i.e., other sides of walls, if the potential exists).
- 3.6.3 The fire watch should use appropriate protective devices and have an appropriate fire extinguisher. The fire watch should not look at flame or welding arc.

MONTHLY FIRE INSPECTION LOG

ISP-15A

FIRST FLOOR

	1		2		3		4		5		6		7		8	
	S	U	S	U	S	U	S	U	S	U	S	U	S	U	S	U
Area/Floor																
Electrical																
Housekeeping																
Non-Designated Storage																
Trans. Comb. Containment																
Fire Protection Equipment																
Observed Conditions																
Miscellaneous																

Isotope Shop should be inspected in conjunction with Restricted Area survey.

Area Description:

1. Isotope Shop, High Level Storage and Locker Room Area.
2. Cell Control Office Area.
3. Conference and Office Area.
4. Isotope Warehouse Area.
5. Loading Dock Area.
6. Cage and Count Room Area.
7. Large Warehouse Area.
8. Storage Office Area.

Comments: _____

Performed by: _____ Date: _____

Reviewed by RSO: _____ Date: _____

MONTHLY FIRE INSPECTION LOG

ISP-15B

SECOND FLOOR, BASEMENT, ATTIC

	1		2		3		4		5		6		7		8	
	S	U	S	U	S	U	S	U	S	U	S	U	S	U	S	U
Area/Floor																
Electrical																
Housekeeping																
Non-Designated Storage																
Trans. Comb. Containment																
Fire Protection Equipment																
Observed Conditions																
Miscellaneous																

Basement, HEPA Room and Clean Equipment Room should be inspected in conjunction with Restricted Area survey.

Area Description:

1. Basement Clean/Hot Area.
2. HEPA Room Area.
3. Clean Equipment Room Area.
4. Offices/HEPA Room Area.
5. Mezzanine Office Area.
6. Second Floor Lab Area.
7. Second Floor Storage Area.
8. Attic Area.

Comments: _____

Performed by: _____ Date: _____

Reviewed by RSO: _____ Date: _____

FIRE INSPECTION REPORT

ISP-15C

Date: _____

ELECTRICAL

Wiring/Emergency Lighting	_____	Temp. Installations	_____
Circuits/Fuses/Junction Boxes	_____	Minimum Clearance	_____
Cords/Motors/Small Appliances	_____	Other	_____

HOUSEKEEPING

Accumulation of Rubbish	_____	Leaking Equipment	_____
Work Area Cleanliness	_____	Other	_____

NON-DESIGNATED STORAGE

Combustible Liquids	_____	Compressed Gases	_____
Flammable Liquids	_____	Other	_____
Packing Materials	_____		_____

FIRE PROTECTION

Fire Extinguishers	_____	Fire Alarms	_____
Sprinkler/Standpipe System	_____	Fire Doors	_____
Damaged/Blocked Equipment	_____	Other	_____

OBSERVED CONDITIONS

Improper Use of Flammable Liquids	_____
Impaired Fire Protection Devices/Systems	_____
Protective Clothing Stations/Supply Areas	_____
Designated Storage Areas	_____

MISCELLANEOUS

Blocked Aisleways	_____	Blocked Doorways	_____
Abandoned Flammables	_____	Other	_____
Abandoned Combustibles	_____		_____

Description of Deficiency: _____

Deficiency to be Resolved by RSO: _____

Reported by: _____ Date: _____

Reviewed by RSO: _____ Date: _____