



Y-12 Hazardous Material Identification

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Hazard Identification

- Uniform hazard identification process developed
 - Y74-801, *Hazardous Material Identification*
- Common starting point for hazard analysis
- Results used by several organizations
 - Facility Safety
 - Emergency Management
 - Fire Protection
 - Environmental



Candidate Hazards

- DOE G 151.1
 - 10 CFR 30.72, Schedule C
 - 29 CFR 1910.119
 - 40 CFR 68.130; 355; 302.4
 - Others based on physical and toxicological properties



Candidate Hazards

- DOE-STD-3009-94
 - Radioactive
 - 29CFR1910.1200; 1910.1450; 1910.119
 - 40CFR355; 302.4
 - EPA extremely hazardous substances
 - NFPA 3 or 4



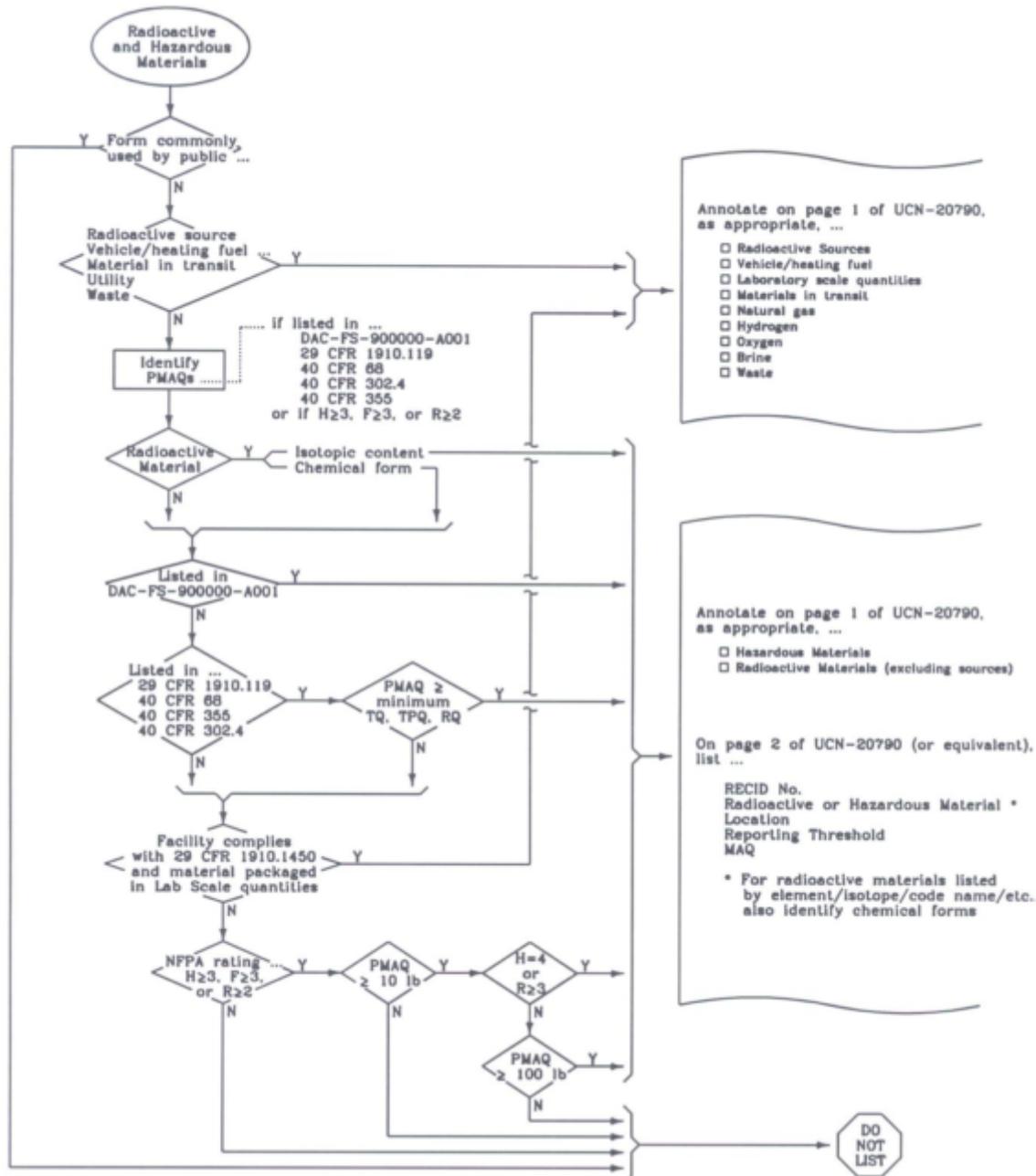
Y-12 Hazard ID Process

- Radioactive
- 29CFR1910.119
- 40CFR68; 355; 302.4
- Designated hazardous materials
- Hazard rating \geq H3, F3, R2



Reporting Threshold

- N/A for materials on special hazards list
- Minimum of the TQ, TPQ, or RQ
- 10 lb for $H = 4$ or $R \geq 3$
- 100 lb for $H = 3$, $F \geq 3$, $R = 2$





Y-12 Hazard ID Process

- Facilities identify materials and MAQs
- Hazard ID lists provided to:
 - EMPO
 - Facility Safety
 - Fire Protection
 - Environmental

HAZARDOUS MATERIAL IDENTIFICATION DOCUMENT

BUILDING/FACILITY DESCRIPTION
E

OCCUPANCY (APPROXIMATE NUMBER OF PERSONS)	BASEMENT	FIRST FLOOR	SECOND FLOOR	THIRD FLOOR	OFF-SHIFT (ENTIRE FACILITY)
CLASSIFIED MATERIALS OR DOCUMENTS PRESENT	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
RADIOACTIVE AND HAZARDOUS MATERIALS PRESENT	<input type="checkbox"/> RADIOACTIVE MATERIALS <input type="checkbox"/> HAZARDOUS MATERIALS <input type="checkbox"/> NO REPORTABLE RADIOACTIVE OR HAZARDOUS MATERIALS		<input type="checkbox"/> RADIOACTIVE SOURCES <input type="checkbox"/> VEHICLE/HEATING FUELS <input type="checkbox"/> LABORATORY QUANTITIES <input type="checkbox"/> MATERIALS IN TRANSIT <input type="checkbox"/> WASTE		<input type="checkbox"/> NATURAL GAS <input type="checkbox"/> HYDROGEN <input type="checkbox"/> OXYGEN <input type="checkbox"/> BRINE
EXTERNAL HAZARDS	<input type="checkbox"/> BUILDING/FACILITY LOCATED IN A CERTAINTY ACCIDENT ALARM SYSTEM COVERAGE AREA ZONE <input type="checkbox"/> OTHER (NATURAL GAS LINES, ACID LINES, COMPRESSED GAS CYLINDER STORAGE, ETC.) <input type="checkbox"/> NONE				
SPECIAL CONDITIONS	<input type="checkbox"/> RADIOLOGICAL AREAS <input type="checkbox"/> PCB-REGULATED AREAS <input type="checkbox"/> RCRA REGULATED AREAS <input type="checkbox"/> FISSILE CONTROL AREAS <input type="checkbox"/> MATERIAL ACCESS AREAS <input type="checkbox"/> NONE				
SUPERCEDES	P				
SIGNATURE					

I HEREBY DECLARE THE INFORMATION CONTAINED HEREIN ACCURATE TO THE BEST OF MY KNOWLEDGE.

SIGNATURE

DATE

PRINTED NAME

UID

MAILING ADDRESS

PHONE

DEPARTMENT/ORGANIZATION

DISTRIBUTE COMPLETED FORM, INCLUDING
ATTACHMENTS, THROUGH DMC PER Y74-801INS.
MINIMUM DISTRIBUTION INCLUDES:

EMERGENCY MANAGEMENT PROGRAM ORGANIZATION
FACILITY SAFETY ENGINEERING
FIRE PROTECTION DESIGN
FIRE PROTECTION ENGINEERING
FIRE PROTECTION OPERATIONS
Y-12 HMIS COORDINATOR

E

**HAZARDOUS MATERIAL IDENTIFICATION DOCUMENT CHANGE NOTICE (HMID CN)
FOR A BELOW FACILITY SAFETY THRESHOLD FACILITY LACKING TECHNICAL BASIS DOCUMENTS**

SECTION 1. INITIATING CHANGE

1. ORIGINATOR (PRINTED NAME)	BADGE NUMBER	2. PHONE	3. DATE	4. CN NUMBER CN -
5. HAZARDOUS MATERIAL IDENTIFICATION DOCUMENT FOR		6. HMID NO. HAZMAT ID-		
7. DESCRIPTION OF CHANGE				

8. IS CHANGE OPERATIONALLY APPROPRIATE? YES NO IF NO, **STOP**. DO NOT MAKE CHANGE.
 IS CHANGE REPORTABLE UNDER Y74-8011NS? YES NO IF NO, **STOP**. HMID CN IS NOT REQUIRED.

SECTION 2. AUTHORIZING CHANGE

9. PERMISSION TO PROCEED GRANTED WITH RESPECT TO THE FACILITY HAZARD SURVEY AND (IF APPLICABLE) HAZARD ASSESSMENT.
 HAZARD SURVEY? YES HAZARD ASSESSMENT? YES N/A

10. EMPD (PRINTED NAME)	BADGE NUMBER	11. EMPD SIGNATURE	DATE
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12. FACILITY CLASSIFICATION REVIEW -
 IF FACILITY CLASSIFICATION CHANGES, APPROVAL
 TO IMPLEMENT REQUIRES DOE APPROVAL OF
 APPLICABLE SB DOCUMENT(S).

REMAINS BELOW FACILITY SAFETY THRESHOLDS
 CHANGED TO: CHEMICALLY HAZARDOUS
 PSMIRMP
 NUCLEAR

13. FACILITY SAFETY (PRINTED NAME)	BADGE NUMBER	14. FACILITY SAFETY SIGNATURE	DATE
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SECTION 3. APPROVAL TO IMPLEMENT CHANGE

IF FACILITY CLASSIFICATION IS CHANGED, THE
 EFFECTIVE DATE TO IMPLEMENT THE CHANGE
 MUST BE SET ON OR AFTER THE EFFECTIVE DATE
 OF THE DOE-APPROVED SB DOCUMENTS.

15. EFFECTIVE DATE

16. OPERATIONS MANAGER (PRINTED NAME)	BADGE NUMBER	17. OPERATIONS MANAGER SIGNATURE	DATE
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SEND APPROVED HMID CN TO APPROPRIATE DMC FOR DISTRIBUTION.

SECTION 4. HMID CN DISTRIBUTION AND CLOSURE

18. CHANGES IMPLEMENTATION CHECKLIST

HMID CN DISTRIBUTED * DATE _____

HMID OR HMID CN SUPERSEDING THIS CN DISTRIBUTED * DOCUMENT NUMBER _____

* Y74-8011NS, C.2 IDENTIFIES MINIMUM DISTRIBUTION. APPROVAL DATE _____

SMART DOCUMENT CONTROL SYSTEM UPDATED TO DATE _____ (SEE BLOCK 20)
 REFLECT CN CLOSURE

19. DMC REPRESENTATIVE (PRINTED NAME)	BADGE NUMBER	20. DMC REPRESENTATIVE SIGNATURE	DATE
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B

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Conclusion

- Integration is the intent of ISM
- Common hazard identification ensures
 - Consistent starting point
 - Consistent analyses

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