

ATTACHMENT H2

TRAINING COURSE AND QUALIFICATION CARD OUTLINES

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7		

1 **COURSE:** Radiography

2
3 **TYPE:** Classroom/OJT

4
5 **OBJECTIVES:** Upon completion of this course, the student will be able to perform
6 radiography in a safe manner and will be able to verify and
7 examine if waste contains ignitable, corrosive, or reactive waste.

8
9 Successfully pass a comprehensive exam based upon training
10 enabling objectives. The comprehensive exam will address the
11 radiography operation, documentation, and procedural elements
12 stipulated in this WAP.

13
14 Perform practical capability demonstration in the presence of
15 appointed site Permittee radiography subject matter expert.

16
17 **REFRESHER:** Biennially

18
19 **COURSE DESCRIPTION**

20 Radiography operators shall be instructed in the specific waste generating practices and typical
21 packaging configurations expected to be found in each Waste Matrix Code at each site
22 shipping waste to WIPP. The OJT and apprenticeship shall be conducted by an experienced,
23 qualified radiography operator prior to qualification of the training candidate.

24
25 The Permittees' radiography training program includes:

26
27 **Formal Training**

- 28
29 • Project Requirements
30 • State and Federal Regulations
31 • Basic Principles of Radiography
32 • Radiographic Image Quality
33 • Radiographic Scanning Techniques
34 • Application Techniques
35 • Radiography of Waste Forms
36 • Standards, Codes, and Procedures for Radiography
37 • Waste Stream-Specific Instruction
38 =

39 **On-the-Job Training**

- 40
41 • System Operation
42 • Identification of Packaging Configurations
43 • Identification of Waste Material Parameters/Waste Matrix Codes
=

- Identification of excess residual liquids as defined in the TSDf-WAC, sealed containers greater than four liters (nominal), and compressed gases
- Verification of waste stream description

A radiography test drum shall include items common to the waste streams to be verified and examined by the Permittees. The test drums shall be divided into layers with varying packing densities or different drums may be used to represent different situations that may occur during radiography examination by the Permittees. The following elements will be in a radiography test drum(s):

- Aerosol can with puncture
- Horsetail bag
- Pair of coveralls
- Empty bottle
- Irregular shaped pieces of wood
- Empty one gallon paint can
- Full container
- Aerosol can with fluid
- One gallon bottle with three tablespoons of fluid
- One gallon bottle with one cup of fluid (upside down)
- Leaded glove or leaded apron
- Wrench

These items shall be successfully identified by the operator as part of the qualification process.

Requalification of operators shall be based upon evidence of continued satisfactory performance (primarily video/audio reviews) and shall be done at least every two years. Unsatisfactory performance will result in disqualification. Unsatisfactory performance is defined as the misidentification of excess residual liquids (as defined in the TSDf-WAC), sealed containers greater than four liters (nominal), except for inorganic solids packaging in metal cans, or compressed gases) in a training drum or a score of less than eighty percent (80%) on the comprehensive exam. Retraining and demonstration of satisfactory performance are required before a disqualified operator is again allowed to operate the radiography system for the Permittees.

1 **COURSE:** Visual Examination

2 **TYPE:** Classroom/OJT

3 **OBJECTIVES:** Upon completion of this course, the student will be able to perform visual
4 examination or a review of visual examination records in a safe manner
5 and will be able to verify and examine if waste contains ignitable,
6 corrosive, or reactive waste.

7 Successfully pass a comprehensive exam based upon training enabling
8 objectives. The comprehensive exam will address the visual examination
9 operation, documentation, and procedural elements stipulated in this
10 WAP.

11 Perform practical capability demonstration in the presence of appointed
12 site Permittee visual examination subject matter expert.

13 **REFRESHER:** Biennially

14 **COURSE DESCRIPTION**

15 Visual examination operators shall be instructed in the specific waste generating processes,
16 typical packaging configurations, and expected waste material parameters expected to be found
17 in each Waste Matrix Code in the waste stream being verified and examined using visual
18 examination.

19 The OJT and apprenticeship shall be conducted by an operator experienced and qualified in
20 visual examination prior to qualification of the candidate. The training shall be site waste stream
21 specific to include the various waste configurations being verified and examined. For example,
22 the particular physical forms and packaging configurations at each site will vary so operators
23 shall be trained on types of waste that are generated, stored, and/or characterized at that
24 particular site.

25 Visual examination personnel shall be requalified once every two years.

26 The visual examination training program includes:

27 **Formal Training**

- 28 • Project Requirements
29 • State and Federal Regulations
30 • Application Techniques
31 • Waste Stream-Specific Instruction (e.g., specific waste generating processes, typical

1 packaging configurations, waste material parameters)

2 On-the-Job Training

- 3 • Identification of Packaging Configurations
- 4 • Identification of Waste Material Parameters/Waste Matrix Code
- 5 • Identification of Prohibited Items liquids as defined in the TSDF-WAC, sealed
- 6 • containers greater than four liters (nominal), and compressed gases
- 7 • Verification of waste stream description

- 1 systems.
- 2 **3.** Integrated Process Knowledge Requirements
- 3 Demonstrate knowledge of the following for the various integrated support functions.
- 4 • Administrative activities for equipment/system isolation, modification and control
- 5 • Management of site derived waste
- 6 • Proper response to abnormal facility conditions
- 7 • Container storage area inspections
- 8 • Facility support systems
- 9 **4.** Integrated Process Practical Requirements
- 10 Demonstrate competency in performing administrative duties for equipment/system
- 11 isolation and control.
- 12 Demonstrate competency in management of site derived waste.
- 13 Demonstrate competency in performing container storage area inspections.
- 14 Walkdown the various facility support systems that affect waste handling.