



Federal Emergency Management Agency

Region X
130 228th Street, Southwest
Bothell, WA 98021-9796

COPY

September 24, 2003

Bruce S. Mallett, Regional Administrator
U. S. Nuclear Regulatory Commission, Region IV
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011-8064

Dear Mr. Mallett:

Enclosed is the final report for the July 16, 2003, Oregon Ingestion Drill for Energy Northwest's Columbia Generating Station. The functions and locations evaluated were an Oregon Food Control Point, and the Emergency Operations Centers of Morrow and Umatilla Counties.

All of the drill participants exhibited excellent knowledge and skills in demonstrating the Ingestion Phase emergency response activities. There were no Deficiencies and only one Area Requiring Corrective Action (ARCA) identified as a result of the drill. One ARCA from a previous exercise was satisfactorily demonstrated and closed.

The corrective actions planned for the ARCA are outlined in the report. FEMA Region X staff will follow-up to ensure the action is completed satisfactorily.

If you should have any questions, please contact Patrick J. Massey, Chairman, Regional Radiological Assistance Committee at (425) 487-4743.

Sincerely,

A handwritten signature in cursive script, which appears to read "John E. Pennington", is written over the typed name.

John E. Pennington
Regional Director

Enclosures:

Final OR Ingestion Drill Report
Distribution List

**SELECTED DISTRIBUTION LIST
FOR
OREGON INGESTION DRILL REPORT – July 16, 2003
COLUMBIA GENERATING STATION**

Meg Capps
Umatilla Co. Emergency Manager
4700 NW Pioneer Place
Pendleton, OR 97801
Phone: 541-966-3700
FAX 541-966-3760
Duty Phone – 541-969-8771
E-Mail: meg@csepp.net

Casey Beard, Manager
Morrow County EM
P.O. Box 622
Heppner, OR 97836
Phone 541-676-5161 FAX 541-676-9454
E-Mail: casey@morsrv.oem.state.or.us

Marty Garshak, Emergency Mgmt Spec
Ingestion Exercise Federal Play Coord.
NPD-TS-RP, Suite 200 - FEMA HQs
500 C Street S. W. Federal Center Plaza
Washington, DC 20472
Phone 202-646-3453 FAX 202-646-3508
E-Mail: martin.garshak@dhs.gov

Tom Groat, EM Operations Supervisor
Umatilla County EM
4700 NW Pioneer Place
Pendleton, OR 97801
Phone 541-966-3708
Cell: 541-969-7590 FAX 541-966-3760
E-Mail: tom.groat@csepp.net

Deanna Henry, Nuclear Emergency Prep.
OR DOE Nuclear Safety Division
625 Marion Street NE
Salem, OR 97301-3742
Phone 509-946-4556 or 509-943-6430
PAGER 503-918-2911
FAX 503-378-6457
FAX in Richland 509-943-6430 (Call First)
E-Mail: deanna.henry@state.or.us

Ron E. Jorgensen, Planner 2
Emergency Preparedness, Energy Northwest
P.O. Box 968 MD/PE-30
Richland, WA 99352-0968
Phone 509-377-8465 FAX 509-377-4317
E-Mail: rejorgensen@energy-northwest.com

A. F. "Fred" Klauss, Manager
Tri-City Special Hazards Program
WA EM - Military Department
1315 West 4th Ave.
Kennewick, WA 99335-6018
Phone 509-736-3010 FAX 509-736-3030
Pager: 509-542-2409
E-Mail: f.klauss@emd.wa.gov

Terry Lindsey, Section Manager
Radiation Protection Services
Oregon Health Division
800 NE Oregon Street, Suite #260
Portland, OR 97232
Phone: 503-731-4014
E-Mail: terry.d.lindsey@state.or.us

Danny Loomis, Radiological Emergency Manager, Oregon DHS
Radiation Protection Services Section
800 N.E. Oregon St. Suite #260
Portland, OR 97232
Phone 503-731-4014, Ext. 661
FAX 503-731-4081
E-Mail: danny.d.loomis@state.or.us

D J. Mauldin, Liaison to RX
FEMA HQ NPD-TS-RP Suite 200
500 C Street SW
Washington, DC 20472
Phone 202-646-4123 FAX 202-646-3508
E-Mail: deborah.mauldin@dhs.gov

**SELECTED DISTRIBUTION LIST
FOR
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COLUMBIA GENERATING STATION**

**Mike Mills, Compliance Manager
Energy Facility Site Evaluation Council
P.O. Box 43172
Olympia, WA 98504-3172
Phone 360-956-2151 FAX 360-956-2158
E-Mail: mikem@ep.cted.wa.gov**

**Curt Moore, Supervisor
Emergency Preparedness
Energy Northwest
P.O. Box 968 MD/PE-30
Richland, WA 99352-0968
Phone 509-377-4323 FAX 509-377-4317
E-Mail: CMMoore@energy-northwest.com**

**Ken Murphy, Director
Oregon Emergency Management
P.O. Box 14370
Salem, OR 97309-5062
Phone 503-378-2911 FAX 503-588-1378
E-Mail: kmurphy@oem.state.or.us**

**Ken Niles, Administrator
Nuclear Safety Div., OR Office of Energy
625 Marion Street NE
Salem, OR 97301-3742
Phone: 503-378-4906
E-Mail: ken.niles@state.or.us**

**Vanessa E. Quinn, Branch Chief
NPD-TS-RP, Suite 200 - FEMA HQs
500 C Street S. W. Federal Center Plaza
Washington, DC 20472
Phone 202-646-3664 FAX 202-646-3508
E-Mail: vanessa.quinn@dhs.gov**

**Maillian Uphaus, Section Supervisor
Program Unit, WA EM/Military Dept.
MS: TA-20 Bldg. 20
Camp Murray, WA 98430-5122
Phone 253-512-7062 FAX 253-512-7207
E-Mail: m.uphaus@emd.wa.gov**

**SELECTED DISTRIBUTION LIST
FOR
OREGON INGESTION DRILL REPORT – July 16, 2003
COLUMBIA GENERATING STATION**

FEMA RX RAC Members

**Patrick J. Massey, RRAC Chair
Technological Hazards Branch Chief
NPD/TH/REP, FEMA RX
Federal Regional Center, 130-228th St. SW
Bothell, WA 98021-9796
425-487-4626 24 hr #425-487-4600
FAX 425-487-4777
E-Mail: patrick.massey@dhs.gov**

**Dolph Diemont, Representative
Regional Emergency Transportation
(DOT) 13th Coast Guard District
915 Second Avenue - Room 3408
Seattle, WA 98174-1067
Phone 206-220-7095 FAX 206-220-7342
E-Mail: ddiemont@pacnorwest.uscg.mil**

**John A. Hall (RAD Health)
U.S. Food & Drug Administration
22201 23rd Drive SE
Bothell, WA 98021-4421
Phone 425-483-4932 FAX 425-483-4996
E-Mail: jhall@ora.fda.gov**

**Mike Hammond, Tech. Hazards Spec.
NPD-TH-HAZMAT-REP, FEMA RX
130 228th St. SW – Federal Reg. Center
Bothell, WA 98021-9796
Phone: 425-487-4775/24 hr #425-487-4600
FAX 425-487-4777
E-Mail: mike.hammond@dhs.gov**

**Bill Maier, State Liaison Officer
Nuclear Regulatory Commission, RIV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064
Phone 817-860-8267 FAX 817-860-8122
E-Mail: WAM@nrc.gov**

**Ken Miles, Reg. RAD Health Rep.
HHS/PHS/FDA - Suite 1180N
Oakland Federal Building
Oakland, CA 94612-5217
Phone 510-637-3960 X122
FAX 510-637-3976
E-Mail: kmiles@ora.fda.gov**

**Rick Poeton, Reg. RAD Representative
U.S. Environmental Protection Agency
1200 Sixth Avenue, ECL-113
Seattle, WA 98101
Phone 206-553-8633 FAX 206-553-0110
E-Mail: poeton.rick@epamail.epa.gov ?**

**Mike (Michael L) Talbot, Emergency
Manager
Department of Energy-RL A6-35
P.O. Box 550
Richland, WA 99352
Phone 509-376-5632 FAX 509-376-4485
E-Mail: Michael_L_Talbot@RL.gov**

**Lori Thomas, Deputy Director
USDA/FSIS/PS–Emerg. Planning Branch
Aerospace Bldg., 3rd Floor, Room 4056
901 D Street Southwest
Washington, D.C. 20024
Office: 202-690-6438 FAX 202-690-6459
E-Mail: lori.thomas@fsis.usda.gov**

**Tom Andrews, Incident Response Coord.
Nuclear Regulatory Commission, RIV
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064
Phone 817-860-8233 FAX 817-860-8228
E-Mail: tha@nrc.gov**

OR Ingestion Drill Team Leader:

**Joseph H. Keller
1445 City Creek Road
Pocatello, Idaho 83204
Phone: 208-233-2326
E-Mail: jhk@ida.net**



Federal Emergency Management Agency

Region X

130 228th Street, Southwest
Bothell, WA 98021-9796

September 23, 2003

Deanna Henry, Emergency Manager
Oregon Department of Energy
625 Marion St. NE
Salem, Oregon 97301-3737

COPY

Dear Mrs. Henry:

This will acknowledge your September 12, 2003, letter to Eleanor Castle referencing the Plan Issues that were determined in our evaluation process during the Oregon Ingestion Exercise on July 16, 2003.

1. Criterion 1.d.1 Communications Equipment. Morrow and Umatilla County plans do not state communications systems that are available other than they will receive notification through the National Alert Warning System and the alternate method being the Law Enforcement Data System. Both Morrow and Umatilla Counties use telephones, video-conferencing, e-mails, ARES Operators, Group Call Phone, and facsimile. OR Response: The Oregon Department of Energy (ODOE) will work with Morrow and Umatilla Counties to revise plans to better reflect the communications capabilities at both Emergency Operations Centers.

Timeline: Plan changes will be made during the 2004 plan revision.

2. Criterion 3.e.2 Implementation of Ingestion Pathway Decisions. Morrow and Umatilla Counties plans do not specify the use of a computer program to receive and process maps of the food control area used in the exercise. Problems with the program prevented prompt coordination between the two counties and delayed completing the food control boundary. OR Response: ODOE will work with Morrow and Umatilla Counties to revise plans to specify the use of a computer program to draw food control boundaries. ODOE will also work with the counties and Washington State offsite emergency response organizations to identify a more effective computer program for this purpose and training will be provided accordingly.

Timeline: The changes will be made during the 2004 plan revision.



Oregon Ingestion Exercise Report

COLUMBIA GENERATING STATION

Licensee: **Energy Northwest**

Exercise Date: **July 16, 2003**

Report Date: **September 23, 2003**

**FEDERAL EMERGENCY MANAGEMENT AGENCY
REGION X
130 228th Street, SW
Bothell, WA 98021-9796**

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EXECUTIVE SUMMARY

This report covers out-of-sequence demonstrations of emergency response actions by Oregon State agencies and counties to satisfy exercise requirements related to Columbia Generating Station (Columbia). This demonstration was evaluated by the Federal Emergency Management Agency (FEMA) as part of Columbia's Out-of-Sequence Exercise conducted on July 16, 2003.

The radiological field sampling was demonstrated at the Food Control Point by a team from the Oregon Health Services. The field team collected, bagged, and prepared two potato samples for transportation to the Oregon Radiological Laboratory.

Participants in the Food Control Point (FCP) demonstration for Columbia included the Oregon Department of Agriculture, Oregon Office of Energy, Oregon Emergency Coordination Center (ECC), Oregon Health Services, local law enforcement, and the Oregon Department of Transportation (ODOT). Staff from these agencies demonstrated the capability and resources necessary to provide a method of interdicting potentially contaminated agricultural products to prevent them from entering intrastate and interstate commerce. The process of interdicting agricultural products following a radiological emergency requires the identification of the area of suspected contamination, designation of enforceable boundaries, and declaration of an agricultural embargo for products originating in the area. Enforcement is administered through public information, contact with food processors and producers, and by the establishment of FCPs. Enforcement of the embargo was demonstrated with the establishment of a FCP at Oregon State's Umatilla Port of Entry. Collection of the agriculture samples from an embargoed shipment was also demonstrated at the FCP.

Morrow and Umatilla Counties demonstrated activation of their Emergency Operation Centers (EOCs) and support of food control and other ingestion pathway response actions, led by Oregon State. The scenario for the exercise involved a release of radiation from Columbia with depositions projected for portions of Umatilla County and Morrow County, Oregon.

This Out-of-Sequence Exercise was held in accordance with FEMA's regulation 44 CFR 350, and FEMA policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERPs) and procedures.

There were no Deficiencies identified as a result of this Out of Sequence Exercise. One Area Requiring Corrective Action (ARCA) was identified (69-03-3.e.2-A-01) and one ARCA from a previous exercise was successfully demonstrated and closed (69-99-12-A-02).

II. INTRODUCTION

On September 17 and 18, 2002, the Federal Emergency Management Agency (FEMA), Region 10 conducted an exercise in the Post Plume Ingestion Exposure Pathway Emergency Planning Zone (EPZ), around the Columbia Generating Station. The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This Out of Sequence Exercise in Oregon was postponed through agreement with FEMA Region 10 until this date (July 16, 2003) and contains the final evaluation of Energy Northwest's Columbia Generating Station 2002 post-plume exercise.

The exercise was held in accordance with FEMA's policies and guidance concerning the exercise of State and local Radiological Emergency Response Plans (RERP) and Procedures.

The qualifying emergency preparedness exercise for the Columbia Generating Station was conducted on June 1, 1983 (previously called Washington Nuclear Power Plant No. 2).

Following the accident at the Three Mile Island Nuclear Station in March of 1979, the President directed FEMA to assume the lead responsibility for all offsite nuclear planning and response. FEMA's Radiological Emergency Preparedness (REP) Program was developed in response to President Carter's Directive of December 7, 1979. The principle guidance for FEMA's REP Program is described in 44 Code of Federal Regulations (CFR) Parts 350, 351 and 352 and NUREG-0654/FEMA REP-1, Revision 1.

FEMA Rule 44 CFR 350 establishes the policies and procedures for FEMA's initial and continued approval of State and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local government participation in joint exercises with licensees.

FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

- Taking the lead in offsite emergency planning as well as taking the lead in the review and evaluation of RERPs and procedures developed by State and local governments;
- Determination of whether such plans and procedures can be implemented on the basis of observation and evaluation of exercises of the State and local government plans and procedures;
- Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and

- Coordinating the activities of other Federal agencies which have responsibilities in the radiological emergency planning process, including the following:
 - U.S. Nuclear Regulatory Commission,
 - U.S. Environmental Protection Agency,
 - U.S. Department of Energy,
 - U.S. Department of Health and Human Services,
 - U.S. Department of Transportation,
 - U.S. Department of Agriculture,
 - U.S. Department of the Interior, and
 - U.S. Food and Drug Administration.

Representatives of the agencies listed above serve on the FEMA Region 10 Regional Radiological Assistance Committee (RRAC), which is chaired by FEMA.

The Out of Sequence Exercise was conducted in accordance with the Extent of Play Agreement and drill scenario.

The Extent of Play Agreement between FEMA and Oregon Office of Energy defined the manner in which a particular response function is to be demonstrated by the players. The agreement was designed to test the capability of the RERPs and procedures to be implemented under simulated emergency conditions. Where no Extent of Play Agreement existed, FEMA evaluated the observed activities as if the plans and procedures were to be followed in their entirety.

The findings presented in this report are based on the evaluations of the Federal Evaluator Team, with final determinations made by the FEMA Region 10 Regional Radiological Assistance Committee (RRAC) Chairperson, and approved by the Regional Director.

The criteria utilized in the FEMA evaluation process are contained in:

- FEMA Rule 44 CFR 350.5;
- FEMA/NRC document NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;
- Interim Radiological Emergency Preparedness Program Manual, dated August 2002;
- and those expected actions called for by the plans and procedures of the participants.

Section III of this report, entitled "Exercise Overview," presents basic information and data relevant to the exercise.

Section IV, "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or function evaluated.

III. EXERCISE OVERVIEW

This section contains the basic information relevant to the July 16, 2003, exercise that tested the offsite emergency response capabilities in the ingestion area surrounding Columbia. This section of the Out of Sequence Exercise report includes descriptions of the plume and ingestion pathway EPZs and a listing of organizations that participated in the exercise.

A. Plume Emergency Planning Zone Description

Columbia is located at the Northeast corner of the U.S. Department of Energy's (US DOE) Hanford Reservation. It is about ten miles north of the city of Richland and three miles west of the Columbia River. Columbia is a boiling water reactor with a turbine generator rated at 1,250 megawatts (peak gross), and is operated by Energy Northwest.

The topography of the ten-mile EPZ is relatively flat except for a range of hills southwest of the site and bluffs and rolling hills to the north and to the east of the site along the Columbia River. The land is arid and desert-like except where irrigated.

The total resident population of the ten-mile EPZ is estimated at 3,674. Only about 1,150 of these residents live in Benton County where Columbia is located. The other 2,524 residents live across the Columbia River to the east in Franklin County. There are no residents within three miles of the site.

The transient population of the ten-mile EPZ could total 15,836 depending on the time of the year. This estimate is comprised of: 7,926 industrial employees, mostly in Benton County, 5,135 migrant farm workers, mostly in Franklin County, and 2,775 recreationists, mostly along the east bank of the Columbia River and at the Off-Road Vehicle Park on the southwestern edge of the EPZ.

The land use within the Benton County portion of the ten-mile EPZ is predominantly vacant except for scattered industrial sites, recreational sites, and some residents on the southern edge of the EPZ. The land use within the Franklin County portion of the EPZ is predominantly diversified agricultural production facilitated by irrigation. There are six recreation areas within the EPZ: Horn Rapids Park, Horn Rapids Off-Road Vehicle Park and Rattlesnake Mountain Shooting Facility in Benton County; the Wahluke Hunting areas and Ringold Fishing Area in Franklin County; and the Columbia River.

B. Ingestion Pathway Emergency Planning Zone

The 50-mile Ingestion Pathway EPZ encompasses all or parts of eight counties in Washington State, two counties in Oregon, and the northeast corner of the Yakima Indian Reservation. The eight Washington Counties are Adams, Benton, Franklin, Grant, Kittitas, Klickitat, Walla Walla, and Yakima. Since only small and unpopulated portions of Kittitas and Klickitat Counties are within the fifty-mile EPZ, these counties are not active participants in the Columbia Offsite Radiological Emergency Preparedness Program. Likewise, the Yakima Tribal Nation is not an active participant. South of Columbia, the fifty-mile EPZ extend approximately 15 miles into the Oregon counties of Morrow and Umatilla.

The topography of the 50-mile Ingestion Pathway EPZ is similar to that of the ten-mile EPZ. The land use is predominantly diversified agricultural production facilitated by irrigation. However, the 50-mile EPZ also includes a number of cities and towns, as well as major transportation routes.

The largest resident population within the 50-mile EPZ is south and southeast of Columbia in the Tri-Cities of Kennewick and Richland, in Benton County, and Pasco, in Franklin County. Their combined population is approximately 116,000.

Other population centers within the 50-mile EPZ include the cities of Moses Lake, approximately 14,760 residents, at the north edge of the EPZ in Grant County, Washington; Sunnyside, approximately 12,500 residents, west of Columbia in Yakima County, Washington; and Hermiston, approximately 11,500 residents, south of Columbia in Umatilla County, Oregon.

Major transportation routes that cross through the 50-mile EPZ include: Interstate Highway 90, north of Columbia in Grant County; Interstate Highways 82, west of Columbia and extending south into Oregon; Interstate Highway 84, south of Columbia in Oregon; and State Route 395, in Adams, Benton, and Franklin Counties. Significant amounts of wheat and other products are shipped by barge on the Columbia and Snake Rivers that cross through the 50-mile EPZ. The Tri-Cities Airport in Pasco, Washington, serves as the regional airport for much of the population within the 50-mile EPZ. The airport is approximately 17 miles southeast of Columbia.

C. Out of-Sequence Exercise Participants

The following agencies, organizations, and units of government participated in the Oregon Ingestion Drill, on July 16, 2003.

OREGON STATE AGENCIES EMERGENCY COORDINATION CENTER (ECC)

Oregon Office of Energy	Oregon Department of Agriculture
Oregon Health Services	Oregon Emergency Management
Oregon Department of Transportation	Oregon State Police
Oregon National Guard	Energy Northwest
WA Office of Emergency Management	Oregon State University

SUPPORT JURISDICTIONS

Morrow County Commissioners
Morrow County Emergency Management
Morrow County Sheriff's Department
Morrow County Agriculture Extension Office
Amateur Radio Emergency Services (ARES)

Umatilla County Commissioners
Umatilla County Emergency Management
Umatilla County Sheriff's Department
Radio Amateur Civil Emergency Services (RACES)
Umatilla County Extension Agent

D. Exercise Timeline

Table 1 presents the time at which key events and activities occurred during the Oregon Out of Sequence Exercise on July 16 2003. Times notifications were made to the participation jurisdictions/functional entities are also included.

Table 1. Exercise Timeline
OREGON Out of Sequence Ingestion Exercise – July 16, 2003

Emergency Classification Level or Event	Time Utility Declared	Time That Notification Was Received Or Action Was Taken			
		Morrow Co. EOC	Umatilla Co. EOC		
Unusual Event					
Alert	0715	0827	0827		
Site Area Emergency	0815	0827	0827		
General Emergency	0855	0929	0929		
Simulated Rad. Release Started	0852	0930	0929		
Simulated Rad. Release Terminated		1040	1040		
Facility Declared Operational		0923	0848		
County Declaration of Emergency		0954	1018		
State Declaration of State Emergency		1015	1015		
State Press Release # 1		0925	0920		
State Press Release #2		1020			
State Press Release #3		1343			
County Press Release #1		1047			
County Press Release #2		1345			
County Press Release #3		Not Released			
Ki Distribution		N/A	N/A		
Agribusiness Brochure distribution		0945	1010		
Exercise Terminated		1405	1405		

IV. OUT-OF-SEQUENCE EXERCISE EVALUATION AND RESULTS

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities that participated in the FEMA evaluated portions of the July 16, 2003 Out of Sequence Exercise. Their purpose was to test selected parts of the offsite emergency response capabilities of State and local governments in the 50-mile EPZ surrounding Columbia.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in exercise objectives contained in Interim REP Program Manual dated August 2002. Detailed information on the Out of Sequence Exercise objectives and Extent of Play Agreement used in the exercise are found in Appendix 3 of this report.

A. Summary Results of Exercise Evaluation - Table 2

The matrix presented in Table 2, on the following page, presents the status of all exercise evaluation area criteria from the FEMA REP Program Manual scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. The exercise evaluation area criteria, listed by number, demonstrates the status of those evaluation area criteria indicated by the use of the following letters:

- M** Met (No Deficiency or ARCAs assessed in this exercise or drills.)
See Appendix 5 for complete listing of unresolved ARCAs,
including those from prior exercises/drills.
- M*** ARCA assessed but Re-demonstrated Successfully.
- D** Deficiency assessed.
- A** ARCA assessed. See Appendix 4 for complete listing of
unresolved ARCAs for the Columbia Generating Station.
This list includes those from prior exercises/drills.
- N** Not Demonstrated (Reason explained in Subsection B).

TABLE 2. Summary of Exercise Evaluation

Date and Site: July 16, 2003 – Oregon Out of Sequence Ingestion Exercise

ELEMENT/Sub-Element	Morrow County	Umatilla County	Food Control Point	
1. EMERGENCY OPERATIONS MANAGEMENT				
1.a.1. Mobilization	M	M		
1.b.1. Facilities	M	M		
1.c.1. Direction and Control	M	M		
1.d.1. Communications Equipment	M	M	M	
1.e.1. Equipment & Supplies to Support Operations	M	M	M	
2. PROTECTIVE ACTION DECISION MAKING				
2.a.1. Emergency Worker Exposure Control				
2.b.1. Radiological Assessment & PARs & PADs Based on Available Information				
2.b.2. Radiological Assessment and PARs and PADs for the General Public				
2.c.1. Protective Action Decisions for Special Populations				
2.d.1. Radiological Assessment & Decision Making for Ingestion Exposure				
2.e.1. Rad Assessment & Decision Making for Relocation, Re-entry & Return				
3. PROTECTIVE ACTION IMPLEMENTATION				
3.a.1. Implementation of Emergency Worker Control			M	
3.b.1. Implementation of KI Decisions				
3.c.1. Implementation of PADs for Special Populations				
3.c.2. Implementation of PADs for Schools				
3.d.1. Implementation of Traffic and Access Control				
3.d.2. Impediments to Evacuation and Traffic and Access Control				
3.e.1. Implementation of Ingestion Decisions Using Adequate Information				
3.e.2. Implementation of IP Decisions Showing Strategies and Instructional Materials	M	A	M	
3.f.1. Implementation of Relocation, Re-entry and Return Decisions				
4. FIELD MEASUREMENT and ANALYSIS				
4.a.1. Plume Phase Field Measurement & Analysis Equipment				
4.a.2. Plume Phase Field Measurement & Analysis Management				
4.a.3. Plume Phase Field Measurements & Analysis Procedures				
4.b.1. Post Plume Field Measurement & Analysis				
4.c.1. Laboratory Operations				
5. EMERGENCY NOTIFICATION & PUBLIC INFORMATION				
5.a.1. Activation of Prompt Alert and Notification				
5.a.2. Activation of Prompt Alert and Notification 15 Minute (Fast Breaker)				
5.a.3. Activation of Prompt Alert and Notification Backup Alert and Notification				
5.b.1. Emergency Information and Instructions for the Public and the Media	M	M		
6. SUPPORT OPERATIONS/FACILITIES				
6.a.1. Monitoring and Decon of Evacuees and EWs and Registration of Evacuees				
6.b.1. Monitoring and Decontamination of Emergency Worker Equipment				
6.c.1. Temporary Care of Evacuees				
6.d.1. Transportation and Treatment of Contaminated Injured Individuals				

LEGEND: M = Met A = ARCA

B. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity, in a jurisdiction based, issues only format. Presented below is a definition of the terms used in this subsection relative to objective demonstration status.

Met - Listing of the demonstrated exercise evaluation area criteria under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.

Met* - Listing of the demonstrated exercise evaluation area criteria under which an ARCA was determined but through re-demonstration the ARCA was cleared.

Deficiency - Listing of the demonstrated exercise evaluation area criteria under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.

Area Requiring Corrective Actions - Listing of the demonstrated exercise evaluation area criteria under which one or more ARCAs were assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

Not Demonstrated - Listing of the exercise evaluation area criteria which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.

Prior ARCAs - Resolved - Descriptions of ARCAs assessed during previous exercises that were resolved in this exercise and the corrective actions demonstrated.

Prior ARCAs - Unresolved – Descriptions of ARCAs assessed during prior exercises that were not resolved in this exercise. Included is the reason the ARCA remains unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

The following are definitions of the two types of exercise issues that are discussed in this report.

A Deficiency is defined in the FEMA REP Program Manual as "...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency to protect the health and safety of the public living in the vicinity of a nuclear power plant."

An ARCA is defined in the FEMA REP Program Manual as "...an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

FEMA has developed a standardized system for numbering exercise issues (Deficiencies and ARCAs). This system is used to achieve consistency in numbering exercise issues among FEMA Regions and site-specific exercise reports within each Region. It is also used to expedite tracking of exercise issues on a nationwide basis.

The identifying number for Deficiencies and ARCAs includes the following elements, with each element separated by a hyphen (-).

Plant Site Identifier - A two-digit number corresponding to the Utility Billable Plant Site Codes.

Exercise Year - The last two digits of the year the exercise was conducted.

Evaluation Area Criterion - A letter and number corresponding to the criteria in the FEMA REP Program Manual.

Issue Classification Identifier - (D = Deficiency, A = ARCA). Only Deficiencies and ARCAs are included in exercise reports.

Exercise Issue Identification Number - A separate two (or three) digit indexing number assigned to each issue identified in the exercise.

1. OREGON FOOD CONTROL POINT

a. MET: Criteria 1.d.1.; 1.e.1.; 3.a.1.; and 3.e.2.

The evaluation of an Oregon Food Control Point (FCP) was conducted in this Out of Sequence Exercise on July 16, 2003. The demonstration was performed at the Oregon Department of Transportation (ODOT) Port of Entry in Umatilla, Oregon, adjacent to the I-82 exit at US Route 395. Four criteria were selected for evaluation and all were met with no performance issues identified. There were no outstanding issues from previous exercises or drills to be resolved.

On arrival, the FCP Team members checked, among other things, their communications equipment. The Team demonstrated the use of a cell phone with a call to the Oregon ECC. Their backup communications for this drill was regular landline telephone and police radio communications. When asked about satellite phones that were specified in the pre-exercise agreement as the primary backup communication system, they said that their plan calls for this, and they would like to have it, but were told by Oregon Health Services that it was not available for this exercise.

All dosimetry and monitoring instrumentation was brought to the FCP from the dispatch location in Portland, Oregon. Dosimetry available included a film badge and a Dosimetry Inc., Model 622 direct reading Pocket Dosimeter with a range of 0 to 20 R for each Team member. The pocket dosimeters had been calibrated on 9-5-02, and are calibrated yearly. In accordance with the plan, they did not have any low range dosimetry.

As provided in their plan, the instrumentation to be used was checked for proper function. They used a Ludlum Model 19 micro r meter, Eberline PIC 6A and a Ludlum Model 12 microR with a pancake probe. All meters had been calibrated on 12-12-02 and are due again on the same date this year. The side of each meter recorded the range calibrated. All these functions were carried out in conjunction with the checklist provided with their worker kits.

Other equipment used by the Team was present at the site, including traffic cones, and a sampling and personal protection kit. The contents of this kit include a checklist that coincides with the plan. All items were present.

Dosimetry was issued in accordance with their plans and in the proper manner. A film badge and direct reading dosimeter (DRD) was issued to each Team member. The information on each Team member, to include name, social security number, date, time, serial number of the equipment, contact numbers and other information was recorded on a Dose Control Form included in the kits that they carry to the site. These forms were signed by the Team member, who recorded the vital information, which included the starting and ending DRD readings, and were given to the Team Administrator. The Team Administrator then takes the completed forms to the Oregon Health Services Department at the end of the incident or exercise.

The Team Administrator briefed the Team as to proper procedures and limits they should follow. The Team members were reminded and did, in fact, read their dosimeters one half hour into the exercise. This reading was recorded. All Team members knew that the level at which they should notify the Administrator was 3R. This was verified independently, by interviewing two of the Team members at separate times. In addition they were aware of the fact that a reading of 5R was a level at which they should leave the area once they had notified the Administrator.

The facility is well designed to handle a large number of trucks. It has a more that adequate location to handle three trucks in a "cold" area and 10 trucks in a "hot" area as called for in the Oregon plan.

Normally, the Team Administrator would receive a map indicating the food control area either from the State of Oregon ECC or from Umatilla or Morrow County. For the purposes of the exercise, they were not sent one. The controller injected a message that said, a particular truck was from the controlled area and was the one that they were to survey and sample.

By 1103 the Team had completed all their preparations. At 1111, they started the survey of a truck carrying potatoes from Lamb-Weston. The truck was stopped at the proper location designated by a traffic cone and by security. The driver was contacted, and it was determined that the load had come from an area within the Food Control Area which might have been contaminated. The driver was monitored for any contamination using the Ludlum Model 12 with a pancake probe on the lowest microR setting. It was determined that he was not contaminated. Had he been contaminated, he would have been directed to the "Hot" area and told to wait there until he could be transported to a decontamination site. "Hot" for the purposes of the Food Control Point, is two times the normal background radiation. Normal protocol is to contact Hermiston Fire Department if this should be the case. Hermiston Fire would report to the Port of Entry, transport the person to the Hermiston Safety Center, where they would be decontaminated. If the load were contaminated, there would be two embargo forms filled out, one to stay with the driver and truck, and one for the Team to keep for records. If the driver was not contaminated and wished to have a place to rest or wait while the sampling was completed, there is space provided for that at the Port of Entry.

Once the driver was surveyed, the Team proceeded to survey the vehicle in accordance with the guidelines in their plan. This included the cab of the vehicle, wheel wells, air filter and top of the load. Since there was no radiation above background, the driver was instructed to enter the inspection bay and was given a "Food Control Point Truck Form." Once this survey was completed, the truck was driven into a covered inspection area for sampling. Two samples were taken from the top of the load. Team members knew that if the load had been wet due to rain that they should take the sample from at least one foot below the top of the load. The samples were properly bagged in accordance with directions in the plan, supplied with a chain of custody tag and transferred properly to Law Enforcement at the scene.

Team members wore protective gloves, and if needed, had booties available. The kits that they had did not include any facemasks, but is recommended that they include these for additional protection should any contamination be found.

Once surveyed and found clean, the Team filled out two copies of a form indicating that the load was clean, and the driver was allowed to proceed.

Because the trailer carrying the potatoes was very large, it was necessary to use a stepladder to access the load. It was observed that there was no one assisting with holding the ladder while the sampler was over five feet off the ground. After discussion, it was determined that in the future a simple lean-to ladder would be used for easier, and safer, access to the load.

At the beginning of the exercise, the Umatilla Police, who would normally serve as security, were not able to be present due to a real world emergency. A Weight Control Officer from ODOT volunteered to take his place. This Officer served as security until a Deputy with the Umatilla County Sheriff's Office arrived to relieve him. There was no problem with any of these procedures as they all knew what to do, and had cleared it with the Team Administrator.

All activities described in the demonstration criteria for Criteria 1.d.1.; 1.e.1.; 3.a.1.; and 3.e.2., were carried out in accordance with the plan, unless deviations were provided for in the Extent of Play Agreement.

- b. DEFICIENCY: NONE**
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. NOT DEMONSTRATED: NONE**
- e. PRIOR ARCAs-RESOLVED: NONE**
- f. PRIOR ARCAs-UNRESOLVED: NONE**

2. MORROW COUNTY EMERGENCY OPERATIONS CENTER (EOC)

This facility is located at 325 Willow View Drive, Heppner, Oregon.

- a. **MET:** Criteria 1.a.1.; 1.b.1.; 1.c.1.; 1.d.1.; 1.e.1.; 3.e.2.; and 5.b.1.

Morrow County Emergency Operations Center (EOC) personnel successfully demonstrated the ability to alert and mobilize staff to activate and operate their EOC in response to an incident at Columbia. The EOC staff also demonstrated their ability to communicate and coordinate with other response organizations, disseminate emergency information to the public, and implement protective actions for the ingestion exposure pathway. Seven criteria were evaluated in this July 16, 2003, Out of Sequence Ingestion Exercise.

Notification was received at 0827 by voice to the main telephone line regarding an incident at the Columbia Generating Station in Richland, Washington, at 0715. At 0829 the EOC Activation Call Down/Paging list was executed. Due to the distance involved, several of the EOC personnel were not expected for up to 45 minutes. In the meantime, the staff was able to fulfill all duties required. The EOC was declared staffed and fully operational at 0923. The County Commissioner was en route to Boardman at the time of notification and the decision was made to carry on with business as usual and monitor the situation from Boardman through the Video Teleconferencing (VTC) system. Notification, changes and updates were made telephonically, and through emails and faxes.

According to the "Morrow County Radiation Ingestion Pathway Plans and Procedures for CGS and Hanford Emergency Response" the Oregon State ECC is to notify the Emergency Communications Service. The primary notification method is through the National Alert Warning System and the alternate method is through the Law Enforcement Data System. However, the first classification notification form (CNF) was initially forwarded via voice to the main telephone line at the Morrow County EOC, not the 911 Center as stated in the Plan. All responders should follow the plan or revise the plan to match the process demonstrated.

No Extent of Play limitations were placed on the Morrow County EOC. The County Extension Agent was pre-positioned at the EOC. Morrow County EOC plans include use of a sign-in log and badging system. Neither system was used for the exercise due to staffing limitations. Entry was controlled and limited to visual ID of regular staff or verification by a member of the Morrow County staff.

Staff in attendance included regular and pre-positioned staff (*) and the minimum staff required for this exercise:

- EOC Director
- ANS Coordinator/Assistant to EOC Director
- Information Technology Manager
- Public Information Officer (PIO)
- ESD Contractor Support*
- County Extension Agent*
- Spanish/English Interpreter/Translator
- Amateur Radio Emergency Services (ARES) Radio Operator*

The Morrow County EOC is very well designed and based on the Incident Command System (ICS).

The space is adequate for emergency operations. No current floor plan was available, however; the EOC is permanently set-up, negating the need for a floor plan. The main work area is curved, allowing good visual access to all boards and screens from all locations. Ten computer workstations are set up by section at separate tables behind the main seating area. This allows the EOC staff to work together and focus on the main screens rather than being distracted by their individual computers, yet allows them access to computers as required. The lighting was good and could be controlled and dimmed as needed. Ventilation is temperature controlled and in good working order. Restrooms were available and accessible to the handicapped. They have a smaller, minimally equipped alternate EOC at the Boardman Fire Station for continuity of operations.

The facility has a propane operated Katolight Generator System hard wired in. It is 120/240 volts, 60 Hz, 125 kW, 125 kVA. Specification sheet was received and reviewed. There are three large propane tanks to fuel the generator. The facility has numerous redundant communications systems and the EOC staff demonstrated their use during the exercise. They communicated successfully using standard telephone, off-line telephone, email, fax, UHF radio, DMRS radio, and VTC. The EOC is set-up to display the current log, VTC as needed, and GIS information on two large pull-down screens. They also have three dry erase boards, a Smart Board (linked to the computer), plotters, color and black/white printers. Overall it is a very functional EOC.

Morrow County's key personnel with leadership roles for the ORO provided direction and control to that part of the overall response effort for which they were responsible.

The County Director, as Incident Commander, was in charge of the emergency response and provided superior management skills during the exercise. Frequent briefings, held as new information became available, updated the staff on the exercise progress. Through their video-conferencing capability, all staff could watch and had immediate knowledge of the State and Umatilla County reports. The Director led Morrow County's participation in the video-conferences and also made concurrence calls to the County Commissioners. The County Director followed the Morrow County Radiation Ingestion Pathway Plans and Procedures for CGS and Hanford Emergency Response like clockwork. He is to be commended for his attention to detail, and excellent Incident Command management.

Message logs were maintained and shown on a screen in the EOC at all times. Messages were numbered per County policy and distributed quickly to the staff.

Protective Actions and instructions were implemented as received from the Oregon ECC, as stated in their Radiation Ingestion Pathway Plans and Procedures. Morrow and Umatilla Counties discussed decisions to be made concerning their counties and also those involving the State. Copies of State and local plans and procedures were available to the staff for reference.

Before their release, all Emergency News Releases and Morrow County Press Releases required concurrence by the Counties and the State and this was done systematically. The expertise of the EOC staff was utilized in preparation of publications and various emergency response decisions.

Morrow County demonstrated that they have more than one communications system and that one operated properly. Communication links were established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Communications systems available included telephones (primary), Group Call Phone (back up), fax, e-mail, video-conferencing, and ARES. The ARES representative demonstrated his system and remained throughout the exercise to provide his support. He is to be commended for his volunteer support to the Morrow County EOC and the citizens of the County. All systems were demonstrated successfully and fulfilled the requirements in the Extent of Play. Video-conferencing with County Commissioners meeting at another location resulted in the Commissioners and County staff being cognizant of events as they evolved. It was very evident the Incident Commander and the staff were comfortable with all means of communication. No failures were identified and constant use of the various systems by staff to various entities demonstrated proficiency.

Morrow County has developed a State-of-the-Art EOC and has excellent staff support. Their equipment, maps, displays, forms, and other supplies were sufficient to support emergency operations and all activities were conducted in accordance with Morrow County Plans and Procedures.

KI and dosimetry is not an issue in Morrow County, an ingestion county.

Three computer-generated displays cover video-conferencing, the event log, computer generated diagrams, and various maps. They have 3 white boards for general writing use, a Smart Board, and a regular board on wheels that can be moved throughout the EOC as needed. Computers are strategically located around the back and side of the EOC for utilization of the staff. A circular table with assigned space and necessary equipment for staff (e.g., phones) dominates the inner circle facing the displays.

Morrow County applied the appropriate measures, strategies, and instructional material that had been developed for implementing the protective actions for contaminated water, food products, milk and agricultural production. Morrow County Agencies were alerted and followed their stated responsibilities per the Morrow County Plan.

The County Declaration of Emergency and a food embargo document were prepared and signed to prevent Washington State produce coming into the county. The Oregon State ECC Incident Commander was also requested to seek a State Declaration of Emergency.

Original and subsequent calls were placed to dairies and food processing plants alerting them of an incident at the Columbia Generating Station and also that a release required the effective protective actions. They were advised to reference the Hanford Emergency Preparedness brochure for specific information or contact the Oregon Information Center in Salem at 403-373-7872. Locations to obtain the brochure were stated in Morrow County's Press Release No. 1.

Copies of the Hanford Emergency Preparedness Brochure were available in both English and Spanish in the Morrow County EOC. It was noted these brochures were dated 1999 and still referenced WNP-2 as the name of the nuclear plant. The Brochure, Oregon News Release #2, and Morrow County Press Release No. 1 indicated it was available on Oregon Energy's Web Site and in numerous locations in the County. Not finding the brochure on the stated Web Site, we have been advised by OR Office of Energy that the brochure is only on the Web Site in times of emergency. No place in the Plans and Procedures does it state that a staff person is responsible to put the documentation on the Web Site in times of emergency. We checked the Web Site after the exercise and it was not available.

After calling after the exercise, it was put on the Web Site for us, but only in English. We had no documentation that it was on the Web Site during the exercise. Although it states the brochure is available at various locations in the County, no Letters of Agreement or MOUs covering printing and availability in an emergency are included in the Plans and Procedures for Morrow County or the State.

Tidewater Barge, Corps of Engineers and Coast Guard were notified to ensure water from the Columbia River for irrigation was not contaminated. Reports later determined zero contamination.

The State ECC informed Morrow County that an Oregon Health Team was en route to do air monitoring along the Columbia River.

The Agriculture Extension Agent and support staff had computer data and maps of Morrow County with specific crops, size of farms, etc., clearly documented.

A food control boundary and Access Control Point were determined in concurrence with Oregon State agencies and Umatilla County. A Press Release was prepared (both in English and Spanish) covering specific roads involved and all the ramifications of a food control boundary.

Morrow County provided accurate emergency information and instructions to the public and the news media in a timely manner.

Three Emergency News Releases were prepared by Oregon ECC and concurred in by the counties involved. Morrow County prepared three County News Releases covering the exercise play and decisions made. These were a coordinated effort with the PIO and County Director and approved by the County Commissioners. Two were released (simulated) and the third was being processed when the exercise was terminated.

As agreed in the Extent of Play, Morrow County did not have a Press Conference and the Rumor Control/Public Hotline was handled at the State level. All News Releases were detailed and covered radio monitoring, what the county was doing to protect the health and safety of the citizens, food control boundaries, and status of the incident at the Columbia Generating Station.

Except as noted, all activities described in the demonstration criteria 1.a.1.; 1.b.1.; 1.c.1.; 1.d.1.; 1.e.1.; 3e.2.; and 5.b.1., were carried out in accordance with the plan, unless deviations were provided for in the Extent of Play Agreement.

- b. DEFICIENCY: NONE**
- c. AREAS REQUIRING CORRECTIVE ACTION: NONE**
- d. NOT DEMONSTRATED: NONE**
- e. PRIOR ARCAs-RESOLVED: NONE**
- f. PRIOR ARCAs-UNRESOLVED: NONE**

3. UMATILLA COUNTY EMERGENCY OPERATIONS CENTER (EOC)

This facility is located at 4700 NW Pioneer Place, Pendleton, Oregon.

- a. **MET:** Criteria 1.a.1.; 1.b.1.; 1.c.1.; 1.d.1.; 1.e.1.; 3.e.2.; and 5.b.1.

The evaluation of the Umatilla County Emergency Operations Center (EOC) was conducted in an out-of sequence drill on July 16, 2003. There were seven criteria selected for evaluation and one previous issue to be resolved. One new performance issued was identified and the previous issue was adequately resolved.

The County EOC is located in Pendleton, OR. Initially four responders participated in the demonstration and three of the four, the Emergency Operations Supervisor, Hazard Analyst, Logistics Chief, were located at their normal duty station in the building that houses the EOC. The fourth, a RACES/ARES volunteer was present when the initial notification of the incident at the Columbia Generating Station was received from the State of Oregon Emergency Coordination Center (ECC) at 08:27. At 08:37, the ECC made a recommendation to the County to activate its EOC. The Emergency Operations Supervisor assumed the position of Incident Commander (IC) and he notified the County Commissioners of his decision to activate the County EOC at 08:39.

At 08:41, the IC gave instructions to have the EOC staff contacted via pager. The EOC was declared operational at 08:48. Simulated pages were sent to all County staff (i.e., Health Officer, Public Information Officer, Fire Chiefs, etc.) except the County Agricultural Extension agent who was actually notified by page and arrived at the EOC at approximately 09:40. At 10:07, the Umatilla County Emergency Management Director arrived at the EOC and was given a briefing by the IC.

According to the "Umatilla County Radiation Ingestion Pathway Plans and Procedures for CGS and Hanford Emergency Response" (Umatilla County REP Plan) the Oregon State ECC is to notify the Umatilla County 911 Communications Center concerning situations at CGS including emergency classification levels (ECLs). However, the first classification notification form (CNF) was initially forwarded via voice to the main telephone line at the Umatilla EOC, not the 911 Center as stated in the Plan. The Umatilla County REP Plan also states "the primary notification method (from the State ECC to the County EOC) is through the National Alert Warning System and the alternate method the Law Enforcement Data System" (County Plan III.C.1.a page 5). All responders should follow the plan or revise the plan to match the process demonstrated.

The Umatilla County EOC provides exceptional accommodations to support emergency operations. There are approximately sixteen permanent workstations within the EOC, not including over a dozen workstations in the co-located Joint Information Center, or the sizeable conference room that has areas designated for elected and other senior County officials. Other EOC accommodations include an adjacent 911 Communications Center, RACES/ARES room, a network/switching room, and a large press conference room.

Equipment in the EOC includes three video projectors, a conference television with Video Teleconference (VTC) capability, white-boards, map boards, printers, fax machines, a copier, and large plotter. The County also has a robust communications system including VHF radio system, RACES, and a soon-to-be-completed 450MHz tactical radio system with over 300 new radios. This system will be fully operational within nine months.

Commercial power is backed-up through redundant systems beginning with a battery rack, and a generator providing 6-10 hours of service (which kicks on within 5-15 seconds of commercial power loss). The County also has an agreement with a private vendor, "Power-by-the-Hour" to provide electricity needs to the EOC should the aforementioned back-up systems fail.

The response in the Umatilla County EOC was under the direction and control of the Emergency Operations Supervisor from the Umatilla County Office of Emergency Management who served as the Incident Commander (IC). In accordance with the Oregon emergency response plans and procedures, the Governor is the designated decision maker with the Counties serving as the implementing agent. The IC declared the EOC operational at 0848. Staffing in the EOC was limited for this demonstration and formal staff briefings were not conducted; however, all of the staff present were kept apprised of all necessary information on a near real time basis. The IC contacted the County Commissioners by phone whenever decisions were necessary. A local Disaster Emergency Declaration was prepared and it was approved (simulated by the County Commissioners and County Attorney. The text of the declaration should be reviewed in that there was an implication that it might be necessary for an evacuation of members of the public within Umatilla County. The generally accepted protective actions recommendations for the 50-mile EPZ do not involve evacuations. Copies of the plans were available and were used whenever necessary. Messages forms were used as needed and the participants maintained logs of their activities. The IC coordinated response activities with the Morrow County EOC and with the Oregon ECC. A video conferencing system was used frequently between the three response centers and landline telephone calls were used to accomplish additional coordination functions.

The Umatilla County EOC had numerous communications systems available and several were used during the demonstration. The primary system used for most of the activities was standard commercial telephone. Much of the coordination between the two Oregon Counties and the Oregon ECC was accomplished using a video conferencing system. An ARES volunteer was present who provided a backup communication link between the Umatilla County EOC, the Morrow County EOC and the Oregon ECC. The link was demonstrated by passing several messages between the three response facilities. The initial notification of the emergency was received from the Oregon ECC via a commercial telephone call directly to the Umatilla County Office of Emergency Management. The EOC had FAX machines for hard copy transmissions between the response facilities and there was extensive use of electronic transfer of information using e-mail. Many of the communication systems that were used very effectively are not currently discussed in the plan.

The Umatilla County EOC had available all of the equipment and supplies required to support the response operations. Due to the fact that Umatilla County is Ingestion County, dosimetry and monitoring instrumentation is not applicable for this jurisdiction. The EOC had numerous displays including maps of the 10 and 50-mile EPZs. There was an electronic projection system to show the

activity log. A computer program was available to display maps and food control area locations. There was a set of strip maps that showed every County road in great detail. The Logistics Officer had a supply of all necessary forms. All individuals who were not staff of the County Office of Emergency Management were logged into the facility and were issued "visitor" badges. Access to the facility was via a locked entry and only appropriate individuals were admitted.

Umatilla County primarily provides assistance in implementing ingestion pathway protective action decisions by the Governor. In the early phase of the incident, the County staff had a few copies of an Oregon Office of Energy brochure entitled "Hanford Emergency Preparedness in Oregon" dated November 1999. The County staff stated that they had access to an electronic version and the Brochure was also reputed to be posted on the Oregon Office of Energy Web Site. Post Exercise examination of the Oregon Energy Web Site showed that the Brochure was not available. The County EOC staff discussed how this Brochure would be distributed to the agribusiness community within the County. The County Extension Agent had addresses of all of the commercial agribusiness entities within the County and these Brochures would be transmitted to the addresses by e-mail. Distribution to the public would be from several locations within the County. The locations were published in the simulated Oregon News Release #2. The locations specified were the Emergency Management Office, Chamber of Commerce, and County Courthouse in Pendleton, City Hall and the fire station in Hermiston, City Hall and fire station in Stanfield, and the post office in Echo. It was not clear that all of these locations had the capability or were willing to print hard copy of the Brochures for distribution to the public. The discussion of the distribution of the Brochures concluded the emergency phase of the demonstration.

During a 1040 videoconference between the three response locations, the ECC stated that the response was moving into the ingestion phase. The plant had been stabilized and releases of radioactive material had been stopped. A map of the deposition footprint was transmitted from the ECC that showed a line of the projected 0.4 uR/hour deposition isopleth. This map was transmitted electronically in a format suitable for use with a commercial software program Street Atlas Plus. The Hazards Analyst operated a computer that had this program loaded and had no major problems in the use of the program. It is recommended that additional training and practice with this program be conducted to improve the speed of the County response. The County staff all participated in defining an enforceable boundary outside the 0.4/hour line. The County Extension Agent was extremely knowledgeable about the location of all commercial crops and processing plants in the area. He also was aware of the status of growing and harvest cycle of the crops. His input on the potential economic impact of including areas unnecessarily was very valuable. The boundary was defined on the computer map and a verbal description was prepared. In association with the recommended boundary, the County staff identified a Food Control Point and several locations where roadblocks would be necessary to control traffic carrying agricultural products leaving the Food Control Area. The revised map and the verbal description were transmitted to the ECC and to Morrow County EOC electronically. During the process of defining the boundary, the County received messages from Morrow County that indicated that Morrow County was encountering problems with the files supplied by the ECC. Umatilla County staff attempted to assist Morrow County. Later, Umatilla County received a notification that Morrow County had resolved their problem.

The whole process required several hours to complete. Part of the time could be attributed to the difficult decisions necessary to establish the boundary and part to the lack of familiarity with the operation of the program.

Umatilla County received and reviewed a total of three draft Oregon News Releases from the ECC during the demonstration. The EOC staff reviewed and approved all of the Press Releases. The IC suggested some minor changes in the third draft News Release; however, this suggestion was not accepted by the ECC. The third News Release contained the description of the approved Food Control Area boundary that had been recommended by Morrow and Umatilla Counties. After the boundary had been approved by the ECC the county simulated notification of the public via the use of the CSEPP notification system.

The County Plan specifies the County has the option to conduct news conferences. In accordance with the Extent of Play Agreement, the Umatilla County IC conducted a news conference. In this conference, they reviewed County activities and answered questions from simulated news media. The activities in the news conference demonstrated the correction of a previous ARCA (69-99-12-A-02).

Except as noted, all activities described in the demonstration criteria 1.a.1.; 1.b.1.; 1.c.1.; 1.d.1.; 1.e.1.; 3e.2.; and 5.b.1., were carried out in accordance with the Plan, unless deviations were provided for in the Extent of Play Agreement.

b. **DEFICIENCY: NONE**

c. **AREAS REQUIRING CORRECTIVE ACTION:**

Issue No. 69-03-3.e.2-A-01

Condition: Umatilla County did not have a supply of the brochure (Hanford Emergency Preparedness in Oregon) that was to be distributed to the public and agribusiness community during the early phase of the incident. Without a supply of pre-printed hard copies, the EOC staff stated that an electronic copy would be transmitted to the recipients and the designated public distribution points and the distribution points would make copies for distribution. The brochure was reputed to be posted on the Oregon Office of Energy web site. Post Drill examination of the Oregon Energy web site showed that the brochure was not available via the web. Additional post drill investigations learned that the brochure is not posted on a continuous basis and is only available during exercises and actual events. This issue has multiple parts. First, a review of the Oregon Energy plans and procedures failed to find a requirement to post the brochure on the web site during an emergency activation and the review could not locate a procedure for any individual responsible for the posting. Second, there is no assurance that the designated public distribution points (except the County EOC) are willing or capable of receiving the electronic version (if it were available) and making copies for distribution to the public. No letters of agreement could be located in the Umatilla County plan that agreed to these actions.

Possible Cause: Failure to adequately analyze all needs and assure that the needs could be met.

Reference: NUREG-0654, J.11

Effect: The demonstrated activities indicated that the concept of operations of the plan was unable to be implemented. The public and perhaps a portion of the agribusiness community would not be able to obtain information that the Oregon Office of Energy News Release promised would be available. This would inevitably result in confusion, increased public inquiry traffic and possible decrease in public confidence.

Recommendation: There are two options. One, pre-print a sufficient supply of the brochures, have them available in Umatilla County, and prepare a distribution system that can be implemented during the early phase of an incident. Two, obtain letters of agreement from all designated public distribution points that include an indication of a willingness and capability to receive the electronic version, print sufficient copies, and distribute the copies to the public. It is unclear which organization, Umatilla County or Oregon Office of Energy, is responsible for assuring the plans are capable of being implemented.

d. **NOT DEMONSTRATED: NONE**

e. **PRIOR ARCAs-RESOLVED:**

Issue No. 69-99-12-A-02

Description: Potentially confusing information was released to the media. During the simulated press conference, the PIO passed out the FCA map that had been received from the Columbia EOF. The map was distributed without comment. The county had received the map only moments earlier and had not yet realized that it was only the recommended Food Control Area for which geo-political boundaries had to be coordinated and approved. Media representatives present at such a briefing would undoubtedly have questions about what such a map represented, and if the county officials were unable to adequately explain its purpose, their credibility would suffer. (NUREG-0654, E.7)

Corrective Action Demonstrated: the Umatilla County IC conducted a news conference. In this conference, the County reviewed County activities and answered questions from simulated news media. The activities in the news conference demonstrated the correction of a previous ARCA (69-99-12-A-02).

f. **PRIOR ARCAs-UNRESOLVED: NONE**

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

The following is a list of the acronyms and abbreviations that were used in this report.

ACP	Access Control Point
ARCA	Area(s) Requiring Corrective Action
CFR	Code of Federal Regulations
Columbia	Columbia Generating Station
Cpm	Counts per minute
DAC	Dose Assessment Center
DCX	Direction & Control Center
DILs	Derived Intervention Levels
DHS	Department of Health Services
DRD	Direct Reading Dosimeter
EMD	Emergency Management Division
EOC	Emergency Operations Center
EOF	Emergency Operations Facility
EOP	Emergency Operations Plan
EPZ	Emergency Planning Zone
ERO	Emergency Response Organization
FAX	Facsimile
FCA	Food Control Area
FCB	Food Control Boundary
FCP	Food Control Point, Food Access Control Point
FSO	Food Safety Officer
FEMA	Federal Emergency Management Agency
FNF	Fixed Nuclear Facility
FRC	Federal Response Center
GE	General Emergency
GM	Guidance Memorandum
JIC	Joint Information Center
KI	Potassium Iodide
MUDAC	Meteorological Unified Dose Assessment Center

NOUE	Notification of Unusual Event
NRC	U.S. Nuclear Regulatory Commission
NUREG-0654	NUREG-0654/FEMA-REP-1, Rev. 1, <i>"Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980</i>
ODA	Oregon Department of Agriculture
ODOT	Oregon Department of Transportation
OHS	Oregon Health Services
OR	State of Oregon
ORO	Offsite Response Organization
PAD	Protective Action Decision
PAG	Protective Action Guides
R	Roentgen
RCA	Radiation Control Area
RCW	Revised Code of Washington
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
RERP	Radiological Emergency Response Plan
RRAC	Regional Radiological Assistance Committee
SAE	Site Area Emergency
TCP	Traffic Control Point
TLD	Thermoluminescent Dosimeter
UDAC	Unified Dose Assessment Center
WA	State of Washington

APPENDIX 2

DRILL EVALUATORS

The following personnel evaluated the Oregon Out-of-Sequence Ingestion Drill for Columbia on July 16, 2003. The organization, which each evaluator represents, is indicated by the following abbreviations:

FEMA	Federal Emergency Management Agency
ICF	ICF Consulting (FEMA Contractor)

<u>EVALUATION SITE</u>	<u>EVALUATOR</u>	<u>ORGANIZATION</u>
<u>Joseph H. Keller, Team Leader</u>		
Food Control Point	Mike Hammond	FEMA Region X
Morrow County EOC	Eleanor Castle, TL	FEMA Region X
Observer	Janet Hlavaty-LaPosa	FEMA Region X
Umatilla County EOC	J. H. Keller, TL	ICF
	Pat Massey	FEMA Region X
Observer	Bryant Harrison	FEMA Region X

APPENDIX 3

EXERCISE OBJECTIVES, EXTENT-OF-PLAY AGREEMENTS, AND SCENARIOS

5.0 EXERCISE SCENARIO

5.1 INITIAL CONDITIONS

Columbia Generating Station is currently in a Site Area Emergency due to a failure of the reactor to scram when a manual scram was initiated. The operating crew initiated the manual scram when jet pumps 5 and 6 failed catastrophically causing parts of these pumps to be swept up into the reactor core, causing core damage. Following the manual scram, rods failed to insert. The crew is attempting to shut the reactor down now.

The current meteorological conditions are:

- Temperature is 68°F
- Winds are from the northwest at 3 mph.
- Sky is overcast with a front moving through the area and light precipitation is forecast for later in the afternoon.

5.2 GENERAL EMERGENCY

In accordance with the drill timeline, Columbia Station declares a general emergency when reactor pressure vessel (RPV) level falls to -192 inches, both containment valves in one line fail to close and a downstream pathway to the environment exists. The RPV level has dropped to this point as a result of a loss of coolant accident (LOCA), followed by the failure of some emergency core cooling system equipment to start. The LOCA began while the crew was attempting to shutdown the reactor, and was initially small but got progressively larger over time. In addition to the LOCA, a piping failure in the Containment Exhaust Purge (CEP) system and a failure to close of the valves in the CEP system that would isolate this damaged line have resulted in a large release of radioactive material to the environment.

5.3 TERMINATION OF RELEASE/REACTOR CORE RECOVERY

The crew has been successful in isolating the failed CEP line, restoring the failed emergency core cooling system equipment, shutting down and refilling the reactor. The release has been terminated. However, during the time it was in progress, several wind shifts occurred with the result that the plume has crossed into Oregon. Field teams have determined the footprints of the 500 micro-R/hr and 20 micro-R/hr isopleths and the MUDAC has calculated the footprint of the 0.4 micro-R/hr isopleth (food control area isopleth).

5.4 MORROW AND UMATILLA COUNTY EOC EVENT TIMELINE

0800	ALL CONTROL CELL PARTICIPANTS REPORT TO THE OREGON ECC.
0815	MORROW AND UMATILLA COUNTY LEAD CONTROLLERS NOTIFY OREGON ECC LEAD CONTROLLER THAT THEY AND THE FEMA EVALUATORS ARE IN PLACE AND READY TO BEGIN THE EXERCISE.
0830	Controller Message #1 (Initiate Exercise - Oregon ECC Control Cell)
0830	Oregon ECC Control Cell notifies Morrow and Umatilla counties that a Site Area Emergency has been declared at the Columbia Generating Station and recommends the activation of County Emergency Operation Centers (EOC).
0835	The Oregon ECC Control Cell faxes the Site Area Emergency CNF to Morrow and Umatilla counties.
TBD	<p>Upon notification from Morrow and Umatilla County EOC's that they are operational, Oregon ECC conducts event briefing with Morrow and Umatilla counties. Briefing includes the following information:</p> <ul style="list-style-type: none"> • At 7:15 this morning, CGS declared an Alert level emergency due to a jet pump malfunction. • The Oregon ECC (Control Cell) declared operational at 8:30 a.m. The Governor has been notified. All other appropriate notifications have been made per procedures. Agencies represented at the Oregon ECC include the Oregon Office of Energy, Oregon Health Services, Oregon Department of Agriculture, and Oregon Emergency Management. We have established contact with Washington State. This includes Washington Emergency Management, Washington Department of Health, and the affected counties (Benton and Walla Walla). • The Oregon Health Services has put a field team on standby. • At 8:10 a.m., Joint Information Center opens at 3000 George Washington Way, Richland, WA. Twenty-four hour information services include media briefings, limited media workspace and support materials. Two phone lines established: <ul style="list-style-type: none"> - Media Inquires: (509) 372-5100 - Public Inquiries: (509) 372-5011 • At 8:15 a.m., all Washington state and affected county Emergency Operations Center declared operational. This includes: Washington State Emergency Management Agency, Washington Department of Health, Washington Department of Agriculture, Benton County, Franklin County, and Walla Walla County.
0850	Oregon ECC Control Cell PIO Team provides draft Oregon News Release #1 to Morrow and Umatilla counties.
0855	Controller Message #2 (Backup Communications Demonstration – Morrow and Umatilla County EOCs)
0900	Controller Message #3 (General Emergency Declared – Oregon ECC Control Cell)
0900	Oregon ECC Control Cell notifies Morrow and Umatilla counties that the Site Area Emergency has escalated to a General Emergency and to standby for briefing.
0905	Oregon ECC Control Cell faxes General Emergency CNF and provides draft Oregon News Release #2 to Morrow and Umatilla counties, which includes the following information:

	<ul style="list-style-type: none"> • Current plant conditions. • Non-emergency Energy Northwest and other personnel working within a 1/2 –mile radius of Columbia Generating Station are being evacuated from the site. • Evacuation of WNP-1 site complete. • All automatic protective actions taken in affected counties in Washington State.
0915	<p>Oregon ECC conducts event briefing with Morrow and Umatilla counties. Information includes GE CNF information and the following:</p> <ul style="list-style-type: none"> • The detection of airborne release of radiation from the Columbia Generating Station. Environmental monitoring teams have been dispatched by Energy Northwest to monitor potentially abnormal radiation levels downwind of the station. Release due to the failure of two containment isolation valves to close along with a significant decrease in the water level in the reactor vessel, uncovering the top of active fuel. Reactor water level is being restored and operators have injected boron into the reactor to shut it down. • Oregon State Public Health Officer says evacuation and sheltering not necessary in Oregon. Radiological monitoring teams from Oregon Health Services are traveling to Morrow and Umatilla Counties. • The State of Oregon has set up a telephone information center to answer questions about Oregon's response. Recommend all rumor calls to the counties be forwarded to the state Telephone Information Center. The phone number is (503) 373-7872. • Oregon ECC Control Cell needs to recommend all appropriate precautionary measures be taken by the counties here. This includes, but is not limited to: <ul style="list-style-type: none"> - Issuing pre-printed Tri-Fold brochure on agricultural information.
0925	<p>Morrow and Umatilla counties implement required precautionary measures. This includes, but is not limited to:</p> <ul style="list-style-type: none"> • Issuing pre-printed Tri-Fold brochure on agricultural information.
0935	Controller Message #4 (Pre-printed Materials Procedures Interview/Plume Phase Activities Complete – Morrow and Umatilla County EOCs)
0940	Controller Messages #5 and #6 (Ingestion Phase Activities Begin - Oregon ECC Control Cell, Morrow County EOC, and Umatilla County EOC)
0945	Oregon ECC Control Cell provides Morrow and Umatilla counties with Food Control Area plume footprint.
0950	Morrow and Umatilla counties coordinate the development of a Food Control Boundary with the Oregon ECC Control Cell and affected Washington counties represented at the Oregon ECC Control Cell.
1015	Morrow and Umatilla counties and the Oregon ECC Control Cell complete the development of a Food Control Boundary.
1020	Oregon ECC provides completed Food Control Boundary map, draft Oregon News Release #3 defining the Food Control Boundary, and protective actions for the affected area to Morrow and Umatilla counties.
1025	Controller Message #7 and #8 (Morrow County EOC Objectives Complete – Terminate Exercise Play and Conduct Exercise Critique)

1030	Umatilla County conducts a news conference to define and describe the Food Control Boundary to close an ARCA received during the December 1999 exercise. <ul style="list-style-type: none"> ARCA 69-99-12-A-02 sited Umatilla County for providing confusing information to the news media regarding the Food Control Boundary where food control measures were to be implemented.
1045	Controller Messages #9 and #10 (Umatilla County EOC Objectives Complete – Terminate Exercise Play and Conduct Exercise Critique)

5.5 FOOD CONTROL POINT EVENT TIMELINE

1100	Controller Message #11 (Food Control Point)
1115	FCP crew sets up food control point
1130	FCP crew does area survey of truck survey area.
1145	Controller inject - all readings of truck survey area are background
1150	Truck enters FCP survey area; FCP team commences area survey of truck.
1215	Controller Message #12 (Food Control Point)
1220	Area survey of truck complete, truck moves to sample area.
1225	FCP team takes sample of truck's cargo, and prepares it for shipment to OSU lab
1230	Truck cargo sample ready to be shipped to OSU.
1230	Controller Message #13 and #14 (Food Control Point)

Evaluator & Controller Contact List

Columbia Generating Station - OR Ingestion Exercise

July 16, 2003

LOCATION	PHONE NUMBER	EVALUATOR	CONTROLLER
Oregon State ECC (Salem – Control Cell)	(509) 308-0006 Cell (503) 918-2911 Pager	N/A	Deanna Henry
Umatilla Co. EOC	(541) 966-3700 EOC (503) 918-7061 Pager	Joe Keller - TL Pat Massey Bryant Harrison	Tom Stoops
Oregon Food Control	(503) 572-7652 Cell (503) 666-8596 Sat 1 (503) 666-8314 Sat 2	Mike Hammond - TL	Danny Loomis
Morrow County EOC	(541) 676-5161 EOC	Eleanor Castle – TL Jan Hlavaty-LaPosa	Kathy Stuttaford
FEMA Field Lodging Oxford Suites 1050 No. First Avenue Hermiston, OR 97838	(541) 564-8000 or 1-888-545-7848 FAX (541) 564-0633	J. H. Keller Patrick Massey Bryant Harrison Eleanor Castle Mike Hammond Jan Hlavaty-LaPosa	N/A

Date: June 23, 2003
To: Eleanor Castle and Joe Keller
From: Deanna Henry, OR DOE Emergency Manager
Subject: Revised Exercise Scenario Package

All changes to the Exercise Scenario Package have been made as discussed and agreed upon in our conference call this afternoon. This includes:

Section 1: Objectives and Limitations of the Exercise

- ☐ Duplicated information under Umatilla County's Exercise Objectives and Extent-of-Play has been deleted from 3.e.2.

Section 5: Exercise Scenario

- ☐ The initial Oregon ECC Briefing to the counties will be made upon notification by Morrow and Umatilla counties that their EOCs are operational.
- ☐ As part of the initial Oregon ECC Briefing, additional information regarding a previously declared Alert level emergency at CGS has been added.

Section 6: Controller Messages

- ☐ Controller Message #2 has been revised to remove instructions to Morrow and Umatilla counties to use backup communications.
- ☐ Controller Message #4 has been revised to remove bullet 1, which informed Morrow and Umatilla County that they did not need to review News Release #2.
- ☐ Controller Message #5 has been revised to include information on plume wind shifts.

Section 8: Classification Notification Forms

- ☐ CNF #2 has been revised to indicate a radioactive materials release in progress. *(Doug Huston will fax the revised CNF #2 to FEMA and its Contractor)*

Section 10: News Releases

- ☐ All news releases have been marked draft.
- ☐ News release #3 has been revised to remove the word "yesterday."

Please update the Oregon Exercise Package in your possession with the attached Sections 1, 5, 6, and 10. Please contact me if you have any further questions, concerns, or comments about Oregon's Exercise Package.

Note: Section I was updated June 24, 2003 per D. Henry

1.0 SCOPE, OBJECTIVES, AND LIMITATIONS

1.1 SCOPE

The purpose of this Evaluated Exercise, scheduled for July 16, 2003, is to demonstrate ingestion pathway operations specific to Morrow and Umatilla counties in Oregon and to demonstrate the establishment and operation of a Food Control Point by state Health and Agriculture with the support of local law enforcement.

Specific objectives to be demonstrated by the Offsite Agencies are identified in the following section.

The exercise will include activation of the Umatilla County Emergency Operations Center (EOC) in Pendleton, Oregon, the Morrow County EOC in Heppner, Oregon, and a Food Control Point at the Oregon Department of Transportation (ODOT) Port of Entry in Umatilla, Oregon. Oregon State will establish a control cell at the Oregon Emergency Coordination Center in Salem to support county evaluation activities. Oregon ECC Control Cell activities will not be evaluated.

The objectives and limitations are contained in Section 1.2. Specific guidelines on the conduct of the exercise are contained in Section 2.3. Section 2.4 lists the safety precautions. Section 2.5 describes the simulation guidelines and extent of play of Energy Northwest personnel.

1.2 OBJECTIVES AND LIMITATIONS

Exercise objectives are based on the requirements delineated in 10CFR50 and 44CFR350, as well as guidance found in NUREG 0654/FEMA REP-1 and other regulatory documents as identified in EPI-21, Drill and Exercise Performance.

NOTE: Specific exercise objectives shall not be disclosed to Oregon State and County players.

1.2.1 Objectives for Umatilla and Morrow Oregon Counties:

The following is a summary of objectives and limitations to be demonstrated at each location on July 16. All outstanding ARCAs are also listed under the specific objective for each center.

MORROW COUNTY EMERGENCY OPERATIONS CENTER – Heppner, Oregon

- 1.a.1 Mobilization – OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.

Extent of Play:

1. There are no limitations for Morrow County for the mobilization of county staff.

2. The Oregon Office of Energy (OOE) will establish a Control Cell at the Oregon ECC to support Morrow and Umatilla county EOC exercise play and Food Control Point activities. State Control Cell activities will not be evaluated. All state objectives were successfully demonstrated for FEMA evaluation in September 2002. Agencies to be represented at the Oregon ECC Control Cell:

- Oregon Office of Energy
- Oregon Health Services
- Oregon Department of Agriculture
- Oregon Emergency Management
- Energy Northwest
- State of Washington
- Benton County
- Walla Walla County

- 1.b.1 Facilities – Facilities are sufficient to support the emergency response.

Extent of Play:

1. The Morrow County EOC will demonstrate this criterion for evaluation under the new criterion in this exercise.

- 1.c.1 Direction and Control – Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Extent of Play:

1. There are no limitations for this criterion at the Morrow County EOC.

- 1.d.1 Communications Equipment – At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent of Play:

1. Responders to the Morrow County EOC will use commercial phone lines to demonstrate one primary communication system. Responders will use the Group Call Phone (Oregon State Police Microwave System) to communicate one back up communications message to the Oregon ECC Control Cell.

- 1.e.1 Equipment and Supplies to Support Operations – Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.

Extent of Play:

1. There are no limitations for this criterion at the Morrow County EOC.

- 3.e.2 Implementation of Ingestion Pathway Decisions – Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

Extent of Play:

Morrow County actions will be limited to:

1. Explaining through interview Oregon's procedures for the dissemination of pre-printed materials. The actual dissemination of pre-printed materials will be simulated.
 2. Coordinating the development of geo-political boundaries for a Food Control Area with the Oregon ECC Control Cell. The Oregon ECC Control Cell will assist the counties in coordinating the Food Control Boundary if it crosses state lines.
 3. Supporting the Oregon Health Services and the Oregon Department of Agriculture's establishment and operation of the ODOT Port of Entry Food Control Point. County support is limited to local law enforcement at the Port of the Entry.
- 5.b.1 Emergency Information and Instructions for the Public and the Media – OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

Extent of Play:

1. Morrow County will not conduct a news conference to demonstrate this criterion. Morrow County plans and procedures state that county news conferences are optional, because the state leads all public information efforts in response to radiological emergencies at nuclear facilities.
2. The Morrow County EOC will not establish a Telephone Information Center to address rumor calls. All rumor calls will be referred to the Oregon ECC Control Cell Telephone Information Center.

UMATILLA COUNTY EMERGENCY OPERATIONS CENTER – Pendleton, Oregon

- 1.a.1 Mobilization – OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.

Extent of Play:

1. There are no limitations for Umatilla County for the mobilization of county staff.
2. The Oregon Office of Energy (OOE) will establish a Control Cell at the Oregon ECC to support Morrow and Umatilla county EOC exercise play and Food Control Point activities. State Control Cell activities will not be evaluated. All state objectives were

successfully demonstrated for FEMA evaluation in September 2002. Agencies to be represented at the Oregon ECC Control Cell:

- Oregon Office of Energy
- Oregon Health Services
- Oregon Department of Agriculture
- Oregon Emergency Management
- Energy Northwest
- State of Washington
- Benton County
- Walla Walla County

1.b.1 Facilities – Facilities are sufficient to support the emergency response.

Extent of Play:

1. The Umatilla County EOC will demonstrate this criterion for evaluation under the new criterion in this exercise.

1.c.1 Direction and Control – Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

Extent of Play:

1. There are no limitations for this criterion at the Umatilla County EOC.

1.d.1 Communications Equipment – At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent of Play:

1. Responders to the Umatilla County EOC will use commercial phone lines to demonstrate one primary communication system. Responders will use the Group Call Phone (Oregon State Police Microwave System) to communicate one back up communications message to the Oregon ECC Control Cell.

1.e.1 Equipment and Supplies to Support Operations – Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.

Extent of Play:

1. There are no limitations for this criterion at the Umatilla County EOC.

- 3.e.2 Implementation of Ingestion Pathway Decisions – Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

Extent of Play:

Umatilla County actions will be limited to:

1. Explaining through interview Oregon's procedures for the dissemination of pre-printed materials. The actual dissemination of pre-printed materials will be simulated.
 2. Coordinating the development of geo-political boundaries for a Food Control Area with the Oregon ECC Control Cell. The Oregon ECC Control Cell will assist the counties in coordinating the Food Control Boundary if it crosses state lines.
 3. Supporting the Oregon Health Services and the Oregon Department of Agriculture's establishment and operation of the ODOT Port of Entry Food Control Point. County support is limited to local law enforcement at the Port of the Entry.
- 5.b.1 Emergency Information and Instructions for the Public and the Media – OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

Note: Outstanding ARCA from December 1999 evaluated exercise.

Extent of Play:

1. The Umatilla County EOC will conduct one news conference to describe the Food Control Boundaries for FEMA evaluators to close an ARCA received during the December 1999 exercise. ARCA 69-99-12-A-02 sited Umatilla County for providing confusing information to the news media regarding the Food Control Boundary where food control measures were to be implemented.
2. The Umatilla County EOC will not establish a Telephone Information Center to address rumor calls. All rumor calls will be referred to the Oregon ECC Control Cell Telephone Information Center.

FOOD CONTROL POINT – ODOT Port of Entry in Umatilla, Oregon.

- 1.d.1 Communications Equipment – At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

Extent of Play:

1. Responders to the ODOT Port of Entry Food Control Point will use cell phones to demonstrate one primary communication system. Responders will use a satellite phone to make one call to the Oregon ECC Control Cell to demonstrate backup communication.

- 1.e.1 Equipment and Supplies to Support Operations – Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.

Extent of Play:

1. There are no limitations for this criterion at the ODOT Port of Entry Food Control Point.

- 3.a.1 Implementation of emergency worker exposure control – The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

Extent of Play:

1. There are no limitations for this criterion at the ODOT Port of Entry Food Control Point.

- 3.e.2 Implementation of Ingestion Pathway Decisions – Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

Extent of Play:

Activities performed by Oregon Health Services, Oregon Department of Agriculture, and local law enforcement at the Food Control Point will be limited to the:

1. Establishment and operation of a Food Control Point.
2. Traffic Control.
3. Interview one driver transporting shipment of crops.
4. Survey of one vehicle transporting uncovered shipment of crops.
5. Collection of two samples of crops from the uncovered shipment.
6. Completion of the Chain of Custody activities and preparation of the samples for transport. The actual transport of the samples will be simulated. Evaluation activities are completed at this point.

MESSAGE NO.:	1	TIME: 8:30 a.m.
MESSAGE FOR:	Control Cell Participants	
FROM:	Oregon ECC Lead Controller	
LOCATION:	Oregon ECC Control Cell	
<p>***** THIS IS A DRILL *****</p>		
<p>PLAYER INSTRUCTIONS:</p> <p>Oregon ECC Control Cell Participants:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Notify Morrow And Umatilla Counties per procedures that at 8:15 a.m., a Site Area Emergency was declared at the Columbia Generating Station and to standby for a briefing, a Classification Notification Form, and draft Oregon News Release #1. <input type="checkbox"/> Provide draft Oregon News Release #1 to Morrow and Umatilla counties immediately following initial event briefing for review and approval. 		
<p>CONTROLLER INSTRUCTIONS</p> <p>Oregon ECC Lead Controller:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Initiate Exercise. <input type="checkbox"/> Inform Oregon ECC Control Cell participants that CGS has declared a Site Area Emergency at 8:15 a.m. <input type="checkbox"/> Provide CNF to Oregon ECC Control Cell participants. <input type="checkbox"/> Provide draft Oregon News Release #1. <input type="checkbox"/> Instructs Oregon ECC Control Cell participants to notify Morrow And Umatilla Counties per procedures that a Site Area Emergency has been declared at the Columbia Generating Station. <input type="checkbox"/> Instruct Oregon Energy Director and others as appropriate to providing event status briefing to Morrow and Umatilla counties. Include information from CNF Form and Section 5.4 Morrow and Umatilla County EOC Event Timeline for 8:40 a.m. <input type="checkbox"/> Instruct Oregon ECC Control Cell PIO Team to provide draft Oregon News Release #1 to Morrow and Umatilla counties following initial event briefing for review and approval. 		
<p>***** THIS IS A DRILL *****</p> <p>DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS</p> <p>DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES</p> <p>***** THIS IS A DRILL *****</p>		

MESSAGE NO.:	2	TIME: 8:50 a.m.
MESSAGE FOR:	Morrow and Umatilla County Participants	
FROM:	Morrow and Umatilla County Lead Controllers	
LOCATION:	Morrow and Umatilla County EOCs	
<p>***** THIS IS A DRILL *****</p>		
PLAYER INSTRUCTIONS: Morrow and Umatilla County Exercise Participants: <input type="checkbox"/> Proceed with the use of a backup communications source to provide input to the Oregon ECC on draft Oregon News Release #1. <input type="checkbox"/> Resume the use of commercial phone lines when instructed by Morrow and Umatilla County Lead Controllers.		
CONTROLLER INSTRUCTIONS Morrow and Umatilla County Lead Controllers: <input type="checkbox"/> Upon receipt of draft Oregon News Release #1, announce that EOC commercial phone lines (primary source of communications) are down. (Extent-of-Play Agreement 1.d.1, Limitation #1) <input type="checkbox"/> Upon completing the demonstration of one backup communication to the Oregon ECC on draft Oregon News Release #1, announce that all EOC commercial phone lines are fixed and exercise participants can resume with their primary communications source.		
<p>***** THIS IS A DRILL ***** DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES ***** THIS IS A DRILL *****</p>		

MESSAGE NO.:	3	TIME: 9:00 a.m.
MESSAGE FOR:	Control Cell Participants	
FROM:	Oregon ECC Lead Controller	
LOCATION:	Oregon ECC Control Cell	
<p>***** THIS IS A DRILL *****</p>		
PLAYER INSTRUCTIONS: Oregon ECC Control Cell Participants: Notify Morrow And Umatilla Counties per procedures that at 8:55 a.m. a General Emergency was declared at the Columbia Generating Station and to standby for a briefing, Classification Notification Form, and draft Oregon News Release #2.		

CONTROLLER INSTRUCTIONS

Oregon ECC Lead Controller:

- ☐ Inform Oregon ECC Control Cell participants that CGS has declared a General Emergency at 8:55 a.m.
- ☐ Provide CNF to Oregon ECC Control Cell participants.
- ☐ Provide draft Oregon News Release #1.
- ☐ Instruct Oregon ECC Control Cell participants to notify Morrow And Umatilla Counties per procedures that a General Emergency has been declared at the Columbia Generating Station.
- ☐ Instruct Oregon Energy Director and others as appropriate to providing event status briefing to Morrow and Umatilla counties. Include information from CNF Form and Section 5.4 Morrow and Umatilla County EOC Event Timeline for 9:15 a.m.

Inform Oregon ECC Control Cell PIO Team to provide draft Oregon News Release #2 to Morrow and Umatilla counties. No review and approval is necessary for draft Oregon News Release #2.

***** THIS IS A DRILL *****

DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS

DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES

***** THIS IS A DRILL *****

MESSAGE

4

TIME: 9:35 a.m.

NO.:

MESSAGE

Morrow and Umatilla County Participants

FOR:

FROM:

Morrow and Umatilla County EOC Controllers

LOCATION:

Morrow and Umatilla County EOCs

***** THIS IS A DRILL *****

PLAYER INSTRUCTIONS:

Morrow and Umatilla County Exercise Participants:

Explain through interview to FEMA Oregon's procedures for the dissemination of pre-printed materials.

CONTROLLER INSTRUCTIONS

Morrow and Umatilla County EOC Controllers:

- ☐ Inform Morrow and Umatilla County exercise participants that they need not issue the pre-printed Tri-Fold brochure titled "Hanford Emergency Preparedness in Oregon." However, Morrow and Umatilla County exercise participants need to explain Oregon's procedures for the dissemination of pre-printed materials. (Extent-of-Play Agreement 3.e.2, Limitation #1)

Inform Oregon ECC Lead Controller when all plume phase objectives have been completed. Be sure to consult with FEMA to ensure all plume phase objectives are met prior to contacting the Oregon ECC Lead Controller.

***** THIS IS A DRILL *****

DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS

DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES

***** THIS IS A DRILL *****

MESSAGE NO.:	5	TIME: 9:40 a.m.
MESSAGE FOR:	Control Cell Participants	
FROM:	Oregon ECC Lead Controller	
LOCATION:	Oregon ECC Control Cell	
<p>***** THIS IS A DRILL *****</p>		
<p>PLAYER INSTRUCTIONS: Oregon ECC Control Cell Participants:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inform Morrow And Umatilla Counties that contamination has reached the Oregon border and to standby for a briefing and a copy of the Food Control Area footprint for coordination of a Food Control Boundary. <input type="checkbox"/> Following briefing, e-mail Delorme Street Atlas Map of the plume footprint to Morrow and Umatilla Counties for coordination. 		
<p>CONTROLLER INSTRUCTIONS: Oregon ECC Lead Controller:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Inform Morrow and Umatilla County Lead Controllers that exercise activities will now transition into ingestion phase activities. <input type="checkbox"/> Inform Oregon ECC Control Cell participants that Morrow and Umatilla County EOCs have completed the demonstration of all required plume phase objectives. Instruct Oregon ECC Control Cell participants to proceed with ingestion phase activities. <input type="checkbox"/> Provide Oregon ECC Control Cell participants with a copy of the Food Control Area footprint. <input type="checkbox"/> Instruct Oregon Energy Director and others as appropriate to providing event status briefing to Morrow and Umatilla counties. Include the following information: <p>Plant operators have successfully terminated the radioactive release. However, before the release was terminated, there were several wind shifts causing the plume to cross into Oregon. We will be sending you a map of the affected area to coordinate a Food Control Boundary for the implementation of food control measures.</p>		
<p>***** THIS IS A DRILL *****</p> <p>DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS</p> <p>DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES</p> <p>***** THIS IS A DRILL *****</p>		

MESSAGE NO.:	6	TIME: 9:40 a.m.
MESSAGE FOR:	Morrow and Umatilla County Exercise Participants	
FROM:	Morrow and Umatilla County Lead Controllers	
LOCATION:	Morrow and Umatilla County EOCs	
<p>***** THIS IS A DRILL *****</p>		
PLAYER INSTRUCTIONS: Morrow and Umatilla County Exercise Participants: <input type="checkbox"/> Proceed with ingestion phase activities.		
CONTROLLER INSTRUCTIONS: Morrow and Umatilla County Lead Controllers <input type="checkbox"/> Inform exercise participants that exercise activities will now move ahead to ingestion phase activities.		
<p>***** THIS IS A DRILL *****</p> <p>DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS</p> <p>DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES</p> <p>***** THIS IS A DRILL *****</p>		

MESSAGE NO.:	7	TIME: 10:25 a.m.
MESSAGE FOR:	Oregon ECC Lead Controller	
FROM:	Morrow County Lead Controller	
LOCATION:	Morrow County EOC	
<p>***** THIS IS A DRILL *****</p>		
PLAYER INSTRUCTIONS: N/A		
CONTROLLER INSTRUCTIONS:		

Morrow County Lead Controller:

- ☐ Upon receipt of draft Oregon New Release #3 on the Food Control Boundary and protective actions, consult with FEMA evaluators to determine if all ingestion phase objectives have been met. Morrow County exercise participants will not conduct a news conference. (Extent-of-Play Agreement 5.b.1., Limitation #2)
- ☐ Inform Oregon ECC Lead Controller when all ingestion phase objectives have been completed.

Oregon ECC Lead Controller:

- ☐ Upon FEMA confirmation that all ingestion activities have been complete, instruct Morrow County Lead Controller to terminate Morrow County EOC exercise play.

***** THIS IS A DRILL *****
DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS
DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES
***** THIS IS A DRILL *****

MESSAGE
NO.:

8

TIME: 10:25 a.m.

MESSAGE FOR: Morrow County Exercise Participants

FROM: Morrow County Lead Controller

LOCATION: Morrow County EOC

***** THIS IS A DRILL *****

PLAYER INSTRUCTIONS:

- ☐ Terminate exercise play.
- ☐ Participate in the exercise critique.

CONTROLLER INSTRUCTIONS:

Morrow County Lead Controller:

- ☐ Inform Morrow County exercise participants that all exercise objectives have been completed.
- ☐ Terminate exercise activities.
- ☐ Conduct exercise critique. Information gathered at the exercise critique will be given to the Oregon ECC Lead Controller.

***** THIS IS A DRILL *****
DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS
DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES
***** THIS IS A DRILL *****

MESSAGE NO.:	9	TIME: 10:45 a.m.
MESSAGE FOR:	Oregon ECC Lead Controller	
FROM:	Umatilla County Lead Controller	
LOCATION:	Umatilla County EOC	
***** THIS IS A DRILL *****		
PLAYER INSTRUCTIONS:		
<input type="checkbox"/> N/A		
CONTROLLER INSTRUCTIONS:		
Umatilla County Lead Controller:		
<input type="checkbox"/> Upon completion of the Umatilla County EOC news conference on the Food Control Boundary and protective actions, consult with FEMA evaluators to determine if all ingestion phase objectives have been met.		
<input type="checkbox"/> Inform Oregon ECC Lead Controller when all ingestion phase objectives have been completed.		
Oregon ECC Lead Controller:		
<input type="checkbox"/> Upon FEMA confirmation that all ingestion activities have been complete, instruct Morrow County Lead Controller to terminate Umatilla County EOC exercise play.		
***** THIS IS A DRILL ***** DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES ***** THIS IS A DRILL *****		

MESSAGE NO.:	10	TIME: 10:45 a.m.
MESSAGE FOR:	Umatilla County Exercise Participants	
FROM:	Umatilla County Lead Controller	
LOCATION:	Umatilla County EOC	
***** THIS IS A DRILL *****		
PLAYER INSTRUCTIONS:		
<input type="checkbox"/> Terminate exercise play.		
Participate in the exercise critique.		

CONTROLLER INSTRUCTIONS:

Morrow County Lead Controller:

- ☐ Inform Umatilla County exercise participants that all exercise objectives have been completed.
- ☐ Terminate exercise activities.
- ☐ Conduct exercise critique. Information gathered at the exercise critique will be given to the Oregon ECC Lead Controller.

***** THIS IS A DRILL *****
DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS
DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES
***** THIS IS A DRILL *****

MESSAGE NO.: **11** **TIME: 11:00 a.m.**

MESSAGE FOR: Oregon ECC Control Cell Lead Controller

FROM: Food Control Point Lead Controller

LOCATION: Food Control Point

***** THIS IS A DRILL *****

PLAYER INSTRUCTIONS:

- ☐ Establish and operate a Food Control Point.

CONTROLLER INSTRUCTIONS:

Food Control Point Lead Controller:

- ☐ Inform Oregon ECC Lead Controller when the FEMA Evaluator and Food Control Point participants are in place and ready to begin the exercise.
- ☐ Initiate Food Control Point demonstration upon receiving instructions from the Oregon ECC Control Cell Lead Controller. Inform Food Control Point participants to establish and operate a Food Control Point.

Oregon ECC Control Cell Lead Controller:

Instruct Food Control Point Lead Controller to Initiate Food Control Point demonstration.

***** THIS IS A DRILL *****
DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS
DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES
***** THIS IS A DRILL *****

MESSAGE NO.: **12** **TIME: 12:15 a.m.**

MESSAGE FOR: Food Control Point participants

FROM: Food Control Point Lead Controller

LOCATION:	Food Control Point
<p>***** THIS IS A DRILL *****</p>	
PLAYER INSTRUCTIONS: <input type="checkbox"/> Respond as appropriate to truck area survey results.	
CONTROLLER INSTRUCTIONS: Food Control Point Lead Controller: <input type="checkbox"/> Inform Food Control Point participants that all truck area survey readings are background.	
<p>***** THIS IS A DRILL *****</p> <p>DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS</p> <p>DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES</p> <p>***** THIS IS A DRILL *****</p>	

MESSAGE NO.:	13	TIME: 12:30 a.m.
MESSAGE FOR:	Food Control Point participants	
FROM:	Food Control Point Lead Controller	
LOCATION:	Food Control Point	
<p>***** THIS IS A DRILL *****</p>		
PLAYER INSTRUCTIONS: <input type="checkbox"/> N/A.		
CONTROLLER INSTRUCTIONS: Food Control Point Lead Controller: <input type="checkbox"/> Upon completion of sample preparation for transport to OSU Radiation Center Laboratory for analysis, consult with FEMA evaluators to determine that all required objectives have been met. <input type="checkbox"/> Inform Oregon ECC Lead Controller when all Food Control Point objectives have been completed. Oregon ECC Lead Controller: Upon FEMA confirmation that all Food Control Point activities are complete, instruct Food Control Point Lead Controller to terminate exercise play.		
<p>***** THIS IS A DRILL *****</p> <p>DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS</p> <p>DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES</p> <p>***** THIS IS A DRILL *****</p>		

MESSAGE NO.:	14	TIME: 12:30 a.m.
MESSAGE FOR:	Food Control Point participants	
FROM:	Food Control Point Lead Controller	

LOCATION: Food Control Point
<p> ***** THIS IS A DRILL ***** </p>
<p>PLAYER INSTRUCTIONS:</p> <p> <input type="checkbox"/> Terminate exercise play. <input type="checkbox"/> Participate in the exercise critique. </p>
<p>CONTROLLER INSTRUCTIONS:</p> <p>Food Control Point Lead Controller:</p> <p> <input type="checkbox"/> Inform Food Control Point participants that all exercise objectives have been completed. <input type="checkbox"/> Terminate exercise activities. <input type="checkbox"/> Conduct exercise critique. Information gathered at the exercise critique will be given to the Oregon ECC Lead Controller. </p>
<p> ***** THIS IS A DRILL ***** DO NOT INITIATE ACTIONS THAT MAY AFFECT PLANT OPERATIONS DO NOT INITIATE ACTIONS THAT MAY VIOLATE SAFETY RULES ***** THIS IS A DRILL ***** </p>

EMERGENCY NEWS RELEASE



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Page 1 of 2

Approved by

(July 16, 2003)

Oregon News

Release #1

Oregon Monitors Nuclear Plant Incident

Oregon nuclear experts determined that an incident this morning at the Columbia Generating Station nuclear power plant near Richland, Washington is not affecting Oregon at this time.

Energy Northwest, the operator of the plant, notified the State of Oregon at about 8:30 a.m. of an equipment malfunction at the facility.

"Oregonians do not need to take any special precautions or protective actions at this time," said Michael Graine, Director of the Oregon Department of Energy, which conducts emergency planning and leads the response nuclear emergencies that impact the state. "All we want right now is for people to be aware there are some problems at the Columbia Generating Station nuclear plant."

The Columbia Generating Station nuclear plant is about 35 miles north of Umatilla, Oregon. The plant is three miles west of the Columbia River.

Governor Ted Kulongoski's office has been notified of the incident.

The State of Oregon set up an Emergency Coordination Center (ECC) in Salem as a precaution. The ECC staff is trained to respond to a nuclear power plant accident. The Oregon ECC includes staff from several state agencies, including the Department of Energy, Health Services, and Emergency Management.

ECC staff is in touch with the plant's technical staff and emergency operations in Washington. Oregon Health Services has sent radiological monitoring teams to northern Umatilla County.

ECC staff set up a telephone information center to respond to calls about Oregon's response to the incident at the Columbia Generating Station. The phone number is 503-373-7872.

Northeastern Oregon residents can receive emergency broadcast announcements on KONA Radio, 610 AM or 105.3 FM.

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EMERGENCY NEWS RELEASE

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Approved by

(July 16, 2003)

Oregon News Release #2

No Radioactive Contamination Found in Oregon

Oregon Health Services does not recommend that Oregonians take potassium iodide at this time. Potassium iodide is a chemical that can help protect a person's thyroid gland from absorbing radioactive iodine. An equipment malfunction occurred this morning at the Columbia Generation Station nuclear power plant near Richland, Washington that has the potential for releasing radioactive material. There is no indication that the malfunction was due to terrorist activity or an explosion.

Field teams from the Oregon Health Services have been sent to monitor Umatilla and Morrow counties. Radioactive material travels in the atmosphere and has not yet had time to reach Oregon considering current conditions.

Potassium iodide is a salt, similar to table salt. It can also be used in certain cases in the event of a nuclear power plant incident involving the release of radioactive materials to the environment. If taken at the correct time and the appropriate dosage, potassium iodide can help protect a person's thyroid gland from absorbing radioactive iodine. It blocks the thyroid gland's uptake of radioactive iodine and thus could reduce the risk of thyroid cancers and other diseases that might otherwise be caused by exposure to radioactive iodine that could be dispersed in a severe nuclear accident.

The State of Oregon's Health Services does not stockpile potassium iodide for public use. Oregon Health Services noted that only a small portion of Oregon is within the 50-mile Emergency Planning Zone for the Columbia Generating Station nuclear power plant. This is well outside of the 10-mile planning zone for which the Nuclear Regulatory Commission recommended distribution of potassium iodide.¹

In addition, since potassium iodide offers only very specialized protection – protecting just the thyroid gland from one specific form of radioactive iodine – people who take it could get a false sense of security that they are safe from any exposure to radioactive materials. Some people could also suffer side effects from taking potassium iodide.

¹ Potassium Iodide (KI) Distribution Information, Memo from Oregon Health Services to Interested Parties, February 11, 2002.

Oregon Health Services strongly recommends and encourages members of the public who are considering obtaining potassium iodide to consult with their health care providers to see if potassium iodide is safe for them to use.

The State of Washington also does not stockpile potassium iodide for the general public.

A free Oregon Office of Energy brochure, "Hanford Emergency Preparedness in Oregon" is available on the Web site: www.energy.state.or.us and at numerous places in Morrow and Umatilla Counties. It explains the protective actions people should take in case of a radiological emergency.

They are at the Morrow County Emergency Management at 325 Willow View Drive and County Courthouse in Heppner; City Hall and the post office inside of Kegler's Market in Irrigon; and the fire station, Kegler's Market and City Hall in Boardman. In Umatilla County, the brochures are at the Emergency Management at 4700 N.W. Pioneer Place, the Chamber of Commerce and the County Courthouse in Pendleton; City Hall and the fire station in Hermiston; City Hall and the fire station in Stanfield and the post office in Echo.

Anyone with questions regarding food or water should contact the Oregon information center in Salem. The phone number is 503-373-7872.

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Page 1 of 2

Approved by

(July 16, 2003)

Oregon News

Release #3

Some Food Controls Necessary

Monitoring teams today found slightly contaminated areas in the northern parts of Umatilla and Morrow counties as a result of an accident at the Columbia Generation Station nuclear power plant near Richland, Washington. Health and agriculture officials said it may be hazardous to consume food products grown or produced in these areas. As a result, a Food Control Area has been established to prevent contaminated food products from being moved out of the area.

This action is being coordinated with the affected counties and with health and agriculture officials in Washington.

Radiation levels in the Food Control Area are low enough that external contact does not pose a health hazard, according to Dr. Grant Higginson, Oregon State Public Health Officer.

"We believe there's no reason for people in Oregon to have to leave these areas," said Dr. Higginson.

The Food Control Area's west boundary is *(describe area)* This area includes the communities of *(for example, Hermiston, Irrigon and Umatilla.)*

It's likely that much of this area has not been contaminated. However, Health Division officials believe precautions within this area are necessary until they complete their sampling. It will take several more days to collect and analyze samples.

Persons in the Food Control Area should not eat fresh garden produce or drink fresh milk from cows or goats pastured in the zone. Canned or frozen foods are safe to eat. Foods in grocery stores are also safe.

All farms and dairies in this area should place and maintain all milk cows and livestock on stored feed. Farmers who do not have stored feed should contact their local extension agent. If possible, livestock should not be allowed to drink from surface water. Agricultural commodities should not be harvested or moved.

Persons with questions regarding safe or unsafe food or water should contact the information center in Salem. The phone number is 503-373-7872.

Umatilla and Morrow counties, Oregon Health Services, and the Oregon Department of Agriculture will establish control points to restrict the movement of food products. All food products must be inspected before they can leave the Food Control Area. Those that are determined to be safe will be certified by the state as being inspected and cleared for human consumption. Any contaminated food products will be embargoed. Farmers will be reimbursed for their losses.

Environmental monitoring shows that areas beyond the Food Control Area were not contaminated by the release of radioactive materials. Food products grown or produced outside of the Food Control Area are safe to harvest and consume. Monitoring will continue to ensure those areas remain uncontaminated.

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APPENDIX 4

SUMMARY OF ALL OUTSTANDING EXERCISE ISSUES COLUMBIA GENERATING STATION, RICHLAND, WASHINGTON As of July 16, 2003

Location	Issue No.	Brief Description	Schedule of Corrective Actions*
OR Umatilla Co.	69-03-3.e.2-A-01	Umatilla County did not have a supply of Oregon's Hanford Emergency Preparedness Brochure that was to be distributed to the public and agricultural community during the early phase of the incident. No supply of pre-printed copies available at distribution points, stating recipients would receive an electronic copy to duplicate and distribute. OR Energy web site showed brochure available only during drills and actual events. No Letters of Agreement available with designated public distribution points.	Corrective Actions: ODOE will draft procedures for a web page operator. ODOE will also post the brochure permanently on the web site. ODOE will work with Umatilla County to revise the ODOE's procedures to clarify that the state is responsible for updating And providing the brochure and other pre-printed materials to the county EOC. The county EOC is responsible for copying and providing the brochure and other pre-printed materials to designated public distribution points. No letters of agreement are necessary because the county EOC is responsible for copying and providing the brochure to designated public distribution points. Plan changes will be made during the 2004 plan revision. Umatilla County will strive to close this ARCA during the next scheduled Columbia Generating Station Ingestion Exercise.
MS-1	69-00-21-A-02	REA Supervision	Lourdes Health Center to train staff to ensure procedures are understood by participants and properly implemented Corrective Actions: The procedures will be demonstrated in the next scheduled MS-1 Drill for Lourdes Health Center.
MS-1	69-00-21-A-03	REA set-up incomplete	Lourdes Health Center to train staff to ensure that Action Cards are followed for proper set-up as described in procedures. Corrective Actions: Will be demonstrated in the next scheduled MS-1 Drill for Lourdes Health Center.
WAEOC	69-02-1.c.1-A-01	Untimely notifications and coordination with OR ECC and WA OROs.	State of Oregon, Walla Walla and Yakima Counties did not receive notifications or they were not timely. Develop a reliable and prompt communication system. Continue the FAX process for hard copy records but utilize NAWAS, telephones, or E-mail for flow of information. Corrective Actions: WA State Integrated Fixed Facility Radiological and Chemical Plan SOPs will be changed to include sending e-mails to each of the affected WA Counties and the State of OR. This will be followed up with phone calls and FAXes to each of these entities.
MUDAC	69-02-2.e.1-A-03	Relocation Area Boundary	Modify current spreadsheet to consider doses for spreadsheet projection the second year and for 50 years. Corrective Actions: WA State DOH Office of RAD Protection officials dispute this issue and provided no schedule of corrective actions. Since it has been determined that the issue is appropriately classified as an ARCA, the resolution is as recommended by FEMA and the scheduled date for demonstration of the corrective action is at the next biennial exercise for the Columbia Generating Station.

APPENDIX 4 (Continued)

SUMMARY OF ALL OUTSTANDING EXERCISE ISSUES COLUMBIA GENERATING STATION, RICHLAND, WASHINGTON As of July 16, 2003

Location	Issue No.	Brief Description	Schedule of Corrective Actions*
BCEOC	69-02-2.b.1-A-04	Agricultural Advisory	Agricultural Advisory Information delayed. Determine faster method to factor wind shifts, etc. In case of a wind shift, extend the boundaries of the Agricultural Advisory to encompass the new plume path as well as the initial plume path. Corrective Actions: The issue will be corrected by removing the offending sentence from Section 4.33 of the Benton County Plan, by revising the Support Coordinator and Emergency Director procedures and by training staff. Issue will be demonstrated at next applicable exercise or drill.

*Schedule of Corrective Actions, except as noted, must be demonstrated prior to, or in, the 2004 Columbia Generating Station biennial exercise.

Note: By mistake, Oregon ARCAs 69-99-05-A-01 and 69-99-12-A-02 were not listed in the 2000 Exercise Report. 69-99-05-A-01 was cleared in September 2002 and 69-99-12-A-02 was cleared in this July 2003 Out of Sequence Exercise.