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Document Update Notification

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NRC - WASHINGTON	
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OP-1905.002	
OFFSITE EMERGENC	Y MONITORING
015-00-0	
AP-15	
NEW REVISION	
ked, please sign, date, and retur led. ANO-1 Docket 50-313 ANO-2 Docket 50-368 Signature	n transmittal
	NRC - WASHINGTON DOC CNTRL DESK M WASHINGTON DC 205 OP-1905.002 OFFSITE EMERGENC 015-00-0 AP-15 NEW REVISION ked, please sign, date, and returned. ANO-1 Docket 50-313

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TITLE: OFFSITE EMERGENCY MONITORING	PROCAVORK PLAN NO. 1905.002	CHANGE NO. 015-00-0	
	WORK PLAN EXP. DATE	TC EXP. DATE	
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SET #/03	⊠YES □NO	☐YES ⊠NO	
	TEMP ALT ☐YES ⊠NO	· · · · · · · · · · · · · · · · · · ·	
When you see the <u>TRAP</u>	use the <u>TOOLS!</u>	!	
Time Pressure	Self Check		
Distraction/Interruption	Peer Check		
Multiple Tasks	3-Part Comr	nunication	
Over Confidence	Pre-Evolution	n Briefs	
Vague or Interpretive Guidance	Knowledge		
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Peer Pressure	STAR		
Change/Off Normal	Procedures		
Physical Environment			
Mental Stress (Home or Work)			
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FORM TITLE:	FORM NO	CHANGE NO.	
VERIFICATION COVER SHEET	1000.0	06A 047-04-0	

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⊠PROCEDURE	WORK PLAN, EXP. DATE	N/A_		PAGE 1	OF <u>_1</u>
TYPE OF CHANGE: NEW Procedure or Work Pla		TC EXP. DATE:	N/A	DELETION	
AFFECTED SECTION: (Include step # if applicable)	DESCRIPTION OF CHANGE: (For each reason for the change.)	h change made, inclu	de suff	icient detail	to describe
	Added Table of Contents				
3.4	Added commitments to procedure				
7.1.1	Bold and brackets due to commitment				
Attachment 1	Title bold and bracket added due to con	nmitment			
1905.002G I.3	Bold and brackets due to commitment				
FORM TITLE:	DESCRIPTION OF CHANGE			RM NO. 00.006C	CHANGE NO. 047-04-0

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PURPOSE 1.0

The purpose of this procedure is to provide guidance to the Offsite Monitoring Section of the Emergency Radiation Team for the documentation of off-site radiological monitoring and sampling activities.

2.0 SCOPE

This procedure is limited in its scope to off-site monitoring and sampling activities performed by the Emergency Response Organization (ERO).

3.0 REFERENCES

- REFERENCES USED IN DEVELOPING THIS PROCEDURE: 3.1
 - Emergency Plan 3.1.1
 - 1903.043, "Duties of the Emergency Radiation Team" 3.1.2
 - EPA-520/1-75-001 MANUAL of Protective Action Guides and 3.1.3 Protective Actions for Nuclear Incidents (September 1975 Revised 1980) page: D-47
 - ANIN-880425-023 3.1.4
- REFERENCES USED IN CONJUNCTION WITH THIS PROCEDURE: 3.2
 - 1012.018, "Administration of Radiological Surveys" 3.2.1
 - 1601.443, "Operation of Portable Air Samplers" 3.2.2
 - 1608.005, "Environmental Radiation Monitoring Program" 3.2.3
 - 1000.031, "Radiation Protection Manual" 3.2.4
 - 1903.066, *Emergency Response Facility Operational 3.2.5 Support Center (OSC) "
 - 1903.067, "Emergency Response Facility Emergency 3.2.6 Operations Facility (EOF) *
 - 1905.001, "Emergency Radiological Controls" 3.2.7
 - 1905.031, "I-131 Determination Using A Frisker" 3.2.8
 - 1903.035, "Administration of Potassium Iodide" 3.2.9
- 3.3 RELATED ANO PROCEDURES:

None

- REGULATORY CORRESPONDENCE CONTAINING NRC COMMITMENTS WHICH ARE 3.4 IMPLEMENTED IN THIS PROCEDURE: [BOLD] DENOTES COMMITMENTS
 - OCAN108605, (P-5013), 1905.002, Attachment 1, Step 7.1.1 3.4.1
 - OCAN089209, (P-3333), Form 1905.002G #3 3.4.2

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4.0 DEFINITIONS

4.1 EMERGENCY RESPONSE ORGANIZATION (ERO)

The organization which is composed of the Initial Response Staff (IRS), the EOF staff, the TSC staff, the OSC staff, and the Emergency Team members. It has the capability to provide manpower and other resources necessary for immediate and long-term response to an emergency situation.

4.2 HEALTH PHYSICS NETWORK (HPN) TELEPHONE

Dedicated telephone system established by the NRC during its standby or initial activation mode of operations after the licensee's TSC/EOF has been activated and is operational. The HPN is the primary means of communicating radiological data (onsite and offsite measurements and dose assessment information) from the licensee to the NRC.

5.0 RESPONSIBILITIES

- 5.1 The Manager, Radiological Protection and Radwaste is responsible for the administrative control of this procedure.
- 5.2 The Offsite Monitoring Supervisor (OMS) is responsible for implementing the offsite radiological monitoring activities under the direction of the Dose Assessment Supervisor.
- 5.3 The Offsite Monitoring Section of the Emergency Radiation Team is responsible for:
 - 5.3.1 Staffing the HPN and Offsite Monitoring base radio at the EOF.
 - 5.3.2 Determining offsite radiological hazards.
 - 5.3.3 Performing the required offsite surveys, monitoring, and sampling.
 - 5.3.4 Reporting offsite Radiological hazards and survey/sampling results to the Offsite Monitoring Supervisor.

6.0 INSTRUCTIONS

6.1 SURVEYS

6.1.1 The Offsite Monitoring Supervisor and Dose Assessment Supervisor (DAS) should determine the priorities to be assigned to surveys. The Offsite Monitoring Supervisor and DAS should also determine the locations and areas to be surveyed.

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6	5.1.2	As mo	onitoring teams become available, the gned on a priority basis by the OMS.	surveys	are
		A.	Offsite Monitoring Section personnel instructed to complete Form 1905.002 Radiation Monitoring Team Checklist dispatched from the EOF.	G, "Offsi	te
		в.	Form 1905.002A, *Offsite Survey Log/ used by Offsite Monitoring Team memb survey information.	Record" s ers to re	hould be cord
		c.	Upon return to the EOF, Offsite Monishould complete Form 1905.002E, "Off Monitoring Team Check for Personnel/Contamination".	site Radı	ation
•	5.1.3	app1	eys should be conducted in accordance icable Radiation Protection Procedure ation Protection Procedures.	with the s and Eme	rgency
		A.	The Offsite Monitoring Supervisor sh radiation protection/plume search me Attachment #1 when directing Offsite Activities.	thods out	lined in
•		B.	The Offsite Monitoring Supervisor an Monitoring Team members should utili "Monitoring/Sampling Points Physical an aid to physically locate the pred monitoring points.	ze Attach Descript	ment #2, :ion" as
		c.	Survey results should be entered in spaces on Form 1905.002A by the Offs Monitoring Section personnel.	the appro site Radia	opriate ation
•	6.1.4	Surv the	ey results should be provided by the Offsite Monitoring Supervisor.	monitorin	g team to
	6.1.5	Inte shou	rim survey data, as received from the ld be provided to the Dose Assessment	monitori Supervis	ng team, or (DAS).
	6.1.6	Moni Emer 1905 (e.g	no further surveys are required, the toring Team should be directed to ret gency Operations Facility (EOF). Com. 002A and any other completed survey., 1905.031A) should be turned in to toring Supervisor.	urn to the pleted Fo record fo	orm orms

6.1.7

The Offsite Monitoring Supervisor should review the returned survey record forms and provide the DAS with any relevant information.

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6.2 AIR SAMPLE ANALYSIS/EVALUATION

- 6.2.1 Initial Air Sample Analysis for radio-iodine will typically be performed in accordance with 1905.031 (Airborne Iodine 131 Determination using a Frisker) and the results reported as quickly as possible to the Offsite Monitoring Supervisor.
- 6.2.2 Subsequent analysis of airborne radioactivity samples will be performed either in accordance with procedure 1012.018
 "Administration of Radiological Surveys" or as instructed by the Offsite Monitoring Supervisor. Results of these analyses should be reported as quickly as possible to the Offsite Monitoring Supervisor on the applicable form.

6.3 SURVEY DATA DISTRIBUTION

6.3.1 Results from offsite monitoring area surveys and air sample analyses should be provided to the Dose Assessment Supervisor in the Emergency Operations Facility. Area survey and air sample analysis information should be provided to the Radiological/Environmental Assessment Manager (REAM) by the Dose Assessment Supervisor.

NOTE

The Arkansas Department of Health may provide field monitoring data to ANO representatives in order to facilitate information exchange between the two organizations. The REAM will provide the EOF Director with any relevant information. The REAM/EOF Director may then provide relevant information to the Arkansas Department of Health. Form 1905.002F may be used for this purpose).

- 6.3.2 The Offsite Monitoring Supervisor (or his designee) should provide the Dose Assessment Supervisor (DAS) the following information on Form 1905.002F as required for transmittal to the Arkansas Department of Health. The DAS should receive similar information from Arkansas Department of Health as it becomes available.
 - A. Date of Survey Self-explanatory.
 - B. Time of Survey Self-explanatory.
 - C. Survey Location As determined from the ANO 10 Mile Emergency Planning Zone (EPZ) map and the ANO 1 Mile EPZ map. The maps to be used during an emergency are located in the emergency kits.

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The ANO 10 Mile Emergency Planning Zone (EPZ) is divided into sixteen 22% degree sectors (designated as sectors 1-16) and ten lettered radial zones at one mile radii from the center of the plant (designated as radial zones A-J). The intersection of a sector with a radial zone is defined as a subsector. Each subsector typically contains two or three specific sampling points designated as 1, 2, or 3, as appropriate. Thus, in order to describe a specific sampling point, three designators are required; sector number, radial zone letter designator, and the number of the specific point within the subsector.

The ANO 1-Mile EPZ map is configured in the same fashion as the 10-Mile Map; however, more detail is included to accommodate the greater number of samples expected in proximity to the plant following an accident.

- "mRem/hr" From dose rate surveys D.
- "µCi/cc" From air sample analysis (if applicable) E.
- "mRem/hr Iodine equivalent" calculate the iodine F. equivalent dose rate by multiplying: µCi/cc x 5.6 E8

6.4 ENVIRONMENTAL SAMPLES

- Environmental samples should be collected in accordance 6.4.1 with 1608.005, "Environmental Radiation Monitoring Program*.
- A Sample Label should be affixed to each environmental 6.4.2 sample container by the individual collecting the sample and should contain the following information:
 - Sample Number Α.
 - Collection Date and Time в.
 - Sample-Location c.
 - Sample Type D.
 - E. Quantity
 - F. Collected By
 - Comments G.
 - Analysis Priority Η.
 - I. Special Instructions
- When sample is returned to the EOF by the monitoring team, 6.4.3 the Offsite Monitoring Supervisor should:
 - Determine the laboratory which should analyze the A. sample. Refer to Emergency Telephone Directory Section 4
 - Assign a sample number to the sample. в.
 - Determine and schedule the method of transportation C. from the EOF to the applicable laboratory.

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		D.	Assign the analysis priority and paranalyzed.	rameters t	o be
		E.	Enter the applicable information in Sample Log (Form 1905.002C).	the Envir	ronmental
	6.4.4	Moni	ysis results should be transmitted to toring Supervisor by the analyst in a cial Instructions" on the Sample Labe	ccordance	ite with the
	6.4.5	used	1905.002D, "Laboratory Analysis Repo to document the results of environme yses.	ort", shou ental samp	lld be
		A.	One copy of the completed Laboratory should be filed with the associated	y Analysis Survey Re	Report
		В.	One copy of the Laboratory Analysis forwarded to the DAS.	Report sh	nould be
		c.	Additional copies (as necessary) sho to the DAS if the requesting authori analysis is outside the ERO.	ould be for the	orwarded ne
7.0 <u>ATTACHME</u>	NTS AND FO	ORMS			
7.1	ATTACHMEN	rs			
	7.1.1		achment 1, "Radiation Protection Cons ch Methods"]	sideration	ns/Plume
	7.1.2		chment 2, "Monitoring/Sampling Points ription"	s Physical	L
7.2	FORMS				
Completed Assessment	Forms 190 Supervis	5.002 or fo	NOTE A, C, D, and F shall be forwarded to review and submittal to the Emergen	the Dose cy Planni	ng.
	7.2.1	Form	1905.002A, *Offsite Survey Log/Recor	rd*	
	7.2.2	Form	1905.002C, *Environmental Sample Log	g "	
	7.2.3		1905.002D, "Laboratory Analysis Repo		
	7.2.4	Form for	n 1905.002E, "Offsite Radiation Monito Personnel/Equipment Contamination"	oring Tear	n Check
	7.2.5	Form	a 1905.002F, "ANO/ADH Survey Data Repo	ort"	

Form 1905.002G, "Offsite Radiation Monitoring Team Checklist"

7.2.6

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["RADIATION PROTECTION CONSIDERATIONS/PLUME SEARCH METHODS"]

The following guidelines should be considered by the Offsite Monitoring Supervisor when directing Offsite Monitoring Section Personnel in the performance of offsite monitoring activities.

Radiation Protection Considerations:

- 1) Offsite Radiation Monitoring Section Personnel are not to exceed dose limits established in 10CFR20 without authorization from the Emergency Operations Facility Director in accordance with Procedure 1903.033, "Protective Action Guidelines for Rescue/Repair and Damage Control Teams".
- Offsite Radiation Monitoring section personnel should be requested to check and report their accumulated doses periodically to the Offsite Monitoring Supervisor. SRDs are to be zeroed upon reaching 75% of full scale. Offsite Monitoring Team members shall report to the Offsite Monitoring Supervisor when SRDs are zeroed and their accumulated doses at that time. Offsite Monitoring Team members who have entered the plume should have a whole-body count as soon as whole-body counting equipment is available and shiftly thereafter.
- 3) Administration of Potassium Iodide (KI) as a thyroid blocking agent will typically not be required. See 1903.035, "Administration of Potassium Iodide".
- 4) The use of respirators (with iodine/particulate canisters) will typically not be required. Their use should be considered at concentrations exceeding 1 DAC (1DAC for I-131 = 2.0E-8 $\mu\text{Ci/cc}$), but their use will greatly hamper communications, decrease team efficiency, and alarm the public who may observe them.
- 5) The Offsite Monitoring Supervisor should instruct the Offsite Monitoring Section personnel in which routes to take to sample/survey points. (Proper route selection will greatly limit the dose they may receive.)
- 6) Offsite Monitoring section personnel should be instructed to keep their instruments "on" at all times and <u>immediately</u> report any unexpected radiation levels.
- Concentrations to plume projection models. However, repeated center line air samples will provide limited additional information and greatly increase dose received. Therefore, additional air samples should usually be taken in lower dose rate plume edges. When air samples are taken in areas with measurable dose rates, sample volume may be less than 100 liters. These samples will have a minimum detection limit significantly greater than 100 liter sample volumes but will generally assess the airborne iodine/particulate activity adequately.

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["RADIATION PROTECTION CONSIDERATIONS/PLUME SEARCH METHODS"]

Plume Search Methods

- 1) If possible, prior to any known release, pre-position one Offsite Monitoring team in a near-site, downwind area and have them obtain a background air sample. (Note: This may allow earlier detection of an unmonitored/unknown release path.)
- The offsite plume projection model is not highly accurate. The model will give general indications of dose rates and plume locations. The actual released plume may differ significantly from the offsite plume projection model.
- 3) The plume centerline location and dose rate should typically be located/ evaluated to determine its relationship to the model projection. Subsequent measurements can typically be made at or near the plume edges.
- As the released plume has no motive force outside of the prevailing wind and heating/cooling effects, the plume will typically travel downwind occasionally altering course with changes in wind direction or geographical factors. The plume may be elevated for a significant distance from the plant site. If so, no iodine/particulate radioactivity will be measurable, but "shine" will be measurable as an increase in general area readings.
- The Offsite Monitoring Supervisor should give special consideration to 5) evaluating the potential for an elevated radioactive plume. An air sample taken (with either silver zeolite or charcoal) while immersed within the plume will show an elevated count rate over a sample taken outside the plume, even if no radioiodine is present. If an air sample taken using a silver zeolite cartridge results in a reading of zero counts per minute above background, take a second sample in the same location using a charcoal cartridge. The result of the second sample, in effect, provides a more sensitive measurement and would either confirm the results of the first sample or indicate that the sample was, in fact, taken while immersed in the plume. The Offsite Monitoring Supervisor, in evaluating the elevated plume potential may solicit additional information from the Dose Assessment Supervisor regarding plume elevation, source term values, and projected dose rates and concentrations. This information can be very useful in determining whether or not the plume is elevated at a particular location.

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["RADIATION PROTECTION CONSIDERATIONS/PLUME SEARCH METHODS"]

- The plume may typically be located by requesting Offsite Monitoring teams to traverse the expected plume path at right angles. The initial plume crossings will typically take place near the plant site to determine the actual plume direction. When the plume edge is first encountered, notify the Offsite Monitoring Supervisor of the location and stop the vehicle. When directed to proceed, turn on the vehicle emergency flashers and commence plume traverse while maintaining a speed of approximately 10 mph. If dose rates of 100 mRem/hr or more are encountered, report the reading and location to the Offsite Monitoring Supervisor and exit the plume unless otherwise directed. Identify and report the locations of the highest reading encountered and the location of the opposite side of plume edge. Centerline plume air samples should typically not be taken during the initial, near-plant plume crossings as dose rates have not been adequately evaluated.
- 7) Radio "dead spots" occur occasionally throughout the 10-mile Emergency Planning Zone. Offsite Monitoring Teams should be reminded of this periodically and requested to check in frequently so as not to remain in such a "dead spot" inadvertently.
- 8) Certain areas within the 10-mile emergency planning zone are inaccessable by automobile. The offsite monitoring supervisor should direct offsite monitoring teams around these areas allowing time for them to arrive at the requested survey/sample point. Consideration should be given to dispatching an Offsite Monitoring team to the far side of some lake/ mountain areas well in advance of the expected plume arrival to allow the team adequate travel time.
- 9) Periodic weather conditions/wind direction information may be obtained by contacting the Dose Assessment Supervisor.

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ATTACHMENT 2

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Sample Pt.	Description	Marker Type
1A1	Located on Hwy 333 approximately 0.25 miles WEST of Ritchie Nuclear Training Center. Power pole marked on SOUTH side of road.	Power pole
1B1	Located at intersection of Hwy 64 and Robertson Ln approximately 1.5 miles WEST of the London Hwy 64 and Hwy 333 intersection. Power pole marked on NORTH side of intersection.	Power pole
1C1	Located at intersection of Bailey Loop Rd and Sims Hollow Rd. Power pole marked on SW corner of intersection.	Power pole
1D1	Located at intersection of Mill Creek Rd and Mill Creek Drive. Power pole marked on NW corner of intersection.	Power pole
1E1	Located at intersection of Mill Creek Rd and Bailey loop Rd (Price Cemetery). Power pole marked on NW corner of intersection.	Power pole
1E2	Located on Pine Twist Rd approximately 0.4 miles NORTH of the Meimerstorf Lane and Pine Twist Rd intersection. Post marker on NE corner of bridge (culvert).	Post
1F1	Located at intersection of Hwy 333, Uellner Rd and Trapp Rd. Power pole marked on NW corner of intersection.	Power pole
1F2	Located at intersection of Hwy 333, Mt Carmel Rd and Huckleberry Rd. Power pole marked on SW corner of intersection.	Power pole
1F3	Located at intersection of Huckleberry Rd and August Pl approximately 1.0 mile EAST of Hwy 333 and Huckleberry Rd intersection. Power pole marked on NORTH side of road.	Power pole
1G1	Located at intersection of Hwy 333 and Pless Community Rd approximately 0.6 miles SOUTH of Augsburg Rd and Hwy 333 intersection. Power pole marked on SW corner of intersection.	Power pole
1H1	Located at intersection of Hwy 333 and Augsburg Rd. Power pole marked NE side of intersection.	Power pole
1H2	Located at intersection of Hwy 333 and Eubanks Rd. Power pole marked on NE side of intersection.	Power pole
111	Located on Eubanks Rd approximately 1.7 miles NORTH of the Hwy 333 and Eubanks Rd intersection. Power pole marked on WEST side of road.	Power pole
1J1	Located at intersection of Ember Rd and Ross Mtn Rd. Power pole marked on SE corner of intersection.	Power pole
1J2	Located on Ross Mtn Road approximately 2.1 miles EAST of the Ember Rd and Ross Mtn Rd intersection. Post marker on SE side of road.	Post
1J3	Located on Ross Mtn Road approximately 1.7 miles SOUTH of the Ross Mtn Rd and Rushing Rd intersection. Post marker on WEST side of road.	Post

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Sample Pt.	Description	Marker Type
2A1	Located on Hwy 333 at the EAST entrance to the RERTC Training Center. No marker	No marker
2B1	Located on Hwy 64 approximately 2.0 miles EAST of the London Hwy 64 and Hwy 333 intersection. Power pole marked on NORTH side of road.	Power pole
2B2	Located on Miller Place Road approximately 0.2 miles NORTH of Chimney Rock Rd. From the Hwy 64 and Chimney Rock Rd intersection, proceed 0.7 miles WEST. Then turn NORTH on Miller Pl and proceed 0.2 miles. Power pole marked on NORTH side of road.	Power pole
2C1	Located on Bailey Loop Rd (cemetery at point) approximately 0.6 miles WEST of the Mill Creek Rd and Bailey Loop Rd intersection. Power pole marked on SOUTH side of road.	Power pole
2C2	Located at intersection of Mill Creek Rd and Fairveiw Drive (NORTH intersection). Power pole marked on NW corner of intersection.	Power pole
2D1	Located at intersection of Mill Creek Rd and Ball Hill Rd. Power pole marked on SE corner of intersection.	Power pole
2E1	Located on Meimerstorf Lane approximately 0.8 miles EAST of Pine Twist Rd and Meimerstorf Lane intersection. Power pole marked on SOUTH side of road.	Power pole
2F1	Located on Shinn Mtn Loop approximately 0.5 miles SOUTH of the Shinn Mtn Loop and Huckleberry Rd intersection. Power pole marked on SOUTH side of road.	Power pole
2F2	Located on Shinn Mtn Loop approximately 1.5 miles SOUTH of the Shinn Mtn Rd and Shinn Mtn Loop intersection. Power pole marked on SW corner of intersection.	Power pole
2G1	Located at intersection of Shinn Mtn Loop and Huckleberry Rd. Power pole marked on SW corner of intersection.	Power pole
2G2	Located on WEST side Shinn Mtn Loop approximately 1.1 miles SOUTH of the Shinn Mtn Rd and Shinn Mtn Loop intersection. Power pole marked on WEST side of road.	Power pole
2H1	Located at intersection of Hwy 333, Shinn Mtn Rd and Nelson Rd. Power pole marked on SE corner of intersection.	Power pole
2H2	Located on Hwy 333 (North New Hope Assembly of God Church and Cemetery) approximately 2.1 miles WEST of Hwy 7 and Hwy 333 intersection. Power pole marked on South side of road.	Power pole
211	Located on Nelson Rd approximately 0.9 miles NORTH of the Hwy 333 and Nelson Rd intersection. Power pole marked on NW corner of intersection	Power pole
2J1	Located at intersection of Rushing Rd and Eubanks Rd (Rushing Church) approximately 2.8 miles WEST of Hwy 7 and Rushing Rd intersection. Power pole marked approximately 100 yds EAST of intersection on NORTH side of road.	Power pole
2J2	Located at intersection of Rushing Rd and Lee Mtn Rd approximately 2.5 miles WEST of Hwy 7 and Rushing Rd intersection. Power pole marked approximately 100 ft. WEST of intersection on SOUTH side of road.	Power pole
2Ј3	Located at intersection of Rushing Rd and Laffoon Drive approximately 1.1 miles WEST of Hwy 7 and Rushing Rd intersection. Power pole marked on NW side of intersection.	Power pole

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Sample	Description	Marker
Pt.		Туре
3A1	Located on Hwy 333 at the WEST entrance to the RERTC Training Center. Power pole marked on NORTH side of road.	Power pole
3B1	Located at intersection of Hwy 333 and Hwy 64 (EAST intersection). Power pole marked on SW side of intersection	Power pole
3C1	Located at intersection of Pleasant View Rd and Mill Creek Rd. Power pole marked on SOUTH side of road.	Power pole
3D1	Located at intersection of Davie Rd and Ball Hill Rd approximately 0.8 miles NORTH of the Pleasant View Rd and Ball Hill Rd intersection. Power pole marked on NW corner of intersection.	Power pole
3E1	Located on Wheeler Bend Rd approximately 0.4 NORTH of the Davie Rd and Wheeler Bend Rd intersection. This is private land. No marker.	No Marker
3F1	Located on Tucker Mtn Rd approximately 1.8 miles WEST of Linker Mtn Rd and Tucker Mtn Rd intersection. Power pole marked on NORTH side of road.	Power pole
3F2	Located at intersection of Tucker Mtn Rd and Isbel Lane approximately 0.7 miles WEST of the Linker Mtn Rd and Tucker Mtn Rd intersection. Post marker on SOUTH side of road.	Post
3G1	Located on Linker Mtn Rd approximately 0.6 miles WEST of Linker Mtn Rd and North Linker Dr intersection. Power pole marked on North side of road.	Power pole
3G2	Located at Intersection of Linker Mtn Rd and Owen Wait Rd. Power pole marked on SE side of intersection.	Power pole
3G3	Located at intersection of Linker Mtn Rd and Tucker Mtn Rd approximately 1.4 miles WEST of the Hwy 7 and Linker Mtn Rd intersection. Power pole marked on NW side of intersection.	Power pole
3н1	Located on North Linker Dr approximately 0.5 miles NORTH of the Linker Mtn Rd and North Linker Dr intersection. Power pole marked on NW side of road.	Power pole
3н2	Located at intersection of Singleton Rd and Quail Hollow Rd approximately 0.7 miles WEST of Hwy 7 and Singleton Rd intersection. Power pole marked on NORTH side of intersection.	Power pole
311	Located on Hwy 333 (bridge) approximately 0.8 miles WEST of the Hwy 7 and Hwy 333 intersection. Power pole marked approximately 100 yds WEST of bridge on SOUTH side of road.	Power pole
312	Located on Hwy 7 at the Illinois Bayou Bridge (NW of Dover) approximately 1.4 miles WEST of the Hwy 7 and Hwy 27 intersection. No marker.	No Marker
313	Located on Hwy 7 at the Linker Creek bridge approximately 1.3 miles SOUTH of the Hwy 7 and Hwy 27 intersection. Power pole marked on EAST side of road.	Power pole
3J1	Located at intersection of Hwy 7 and Rushing Rd. Power pole marked on EAST side of intersection.	Power pole
3J2	Located at intersection of Hwy 7 and Hwy 27 (Dover). Power pole marked on NORTH side of intersection.	Power pole
3J3	Located at intersection of SR 164 and Humphrey Rd approximately 1.4 miles EAST of Hwy 7 and SR 164 intersection. Power pole marked on SOUTH side of intersection.	Power pole

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Sample	Description	Marker
Pt.		Туре
4A1	Located at intersection of Hwy 333 and May Rd (EAST plant entrance). Power pole marked on SE corner of intersection	Power pole
4B1	Located on Tyson Lane (EASTERN most parking lot) approximately 0.5 miles EAST of Hwy 333 and Tyson Lane intersection (Tyson Management Development facility). No marker	No marker
4B2	Located at intersection of Hwy 333 and Gum Lane. Power pole marked on NW corner of intersection.	Power pole
4C1	Located at intersection of Dwight Mission Rd and Lake Ridge Drive (NORTH of I-40). Power pole marked on NE corner of intersection.	Power pole
4D1	Located at intersection of Pleasant View Rd and Ball Hill Rd. Power pole marked 150 feet WEST of intersection.	Power pole
4E1	Located at intersection of Pleasant View Rd and Wheeler Bend Rd (Pleasant Valley Baptist Church). Power pole marked NW corner of intersection.	Power pole
4F1	Located at intersection of Country Club Rd and Country Club Pl (Near Russellville Country Club tennis courts). Power pole marked approximately 150 feet west of intersection.	Power pole
4F2	Located at intersection of Water Works Road and Randall Cir (Russellville City Water Plant) approximately 0.7 miles WEST of Hwy 7 and Water Works Road intersection. Post marker on SE corner of intersection	Post
4G1	Located at intersection of Linker Mtn Rd and Quail Hollow Rd (Linker Mtn Fire Station). Power pole marked on NW corner of intersection.	Power pole
4G2	Located at intersection of Hwy 7 and Round Rock Rd. Power pole marked on NE corner of intersection.	Power pole
4G3	Located at intersection of Baker Creek Rd and Hidden Valley Ln approximately 0.9 miles EAST of Hwy 7 and Baker Creek Rd intersection. Post marker on NORTH side of intersection.	Post
4H1	Located at intersection of Hwy 7 and Morgan Rd. Power pole marked on NE corner of intersection.	Power pole
4H2	Located on Center Valley Road at Baker's Creek Bridge. Bridge approximately 1.5 miles EAST of Hwy 7 and Center Valley Rd intersection. Power pole marked approximately 150 feet EAST of bridge.	Power pole
411	Located at intersection of Morgan Rd and Slab Town Rd. Power pole marked on SW corner of intersection.	Power pole
412	Located at intersection of Roy Taylor Rd, Homer Roach Lane and West Gum Log Rd. Power pole marked on NW corner of intersection.	Power pole
4 J1	Located at intersection of Morgan Rd and Coffman Drive. Power pole marked on SW corner of intersection.	Power pole
4 J2	Located at intersection of West Gum Log Rd and Old Baptist Cemetery Rd. (Cemetery approximately 0.25 miles SOUTH of intersection.) Power pole marked NORTH of intersection.	Power pole

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Sample	Description	Marker
Pt.		Type
5A1	Located on May Rd approximately 0.5 miles SOUTH of Hwy 333 and May Rd intersection (ANO Met Tower). Power pole marked at site.	Power pole
5A2	Located at intersection of Hwy 333 and Bibler Lane. Power pole marked on SW corner of intersection.	Power pole
5C1	Located at intersection of Sunset Drive and Marina Rd (Hwy 326). Power pole marked on SOUTH side of road.	Power pole
5D1	Located at intersection of Hwy 64, West Parkway Dr, and Lake Front Road. Sample point is approximately 200 feet EAST of intersection. Post marker on NORTH side of road.	Post
5E1	Located on Pleasant View Road approximately 0.8 miles WEST of Hwy 7 and Pleasant View Road intersection. Power pole marked on NW corner of WEST bridge.	Power pole
5E2	Located on Lake Shore Dr (parking lot of Bona Dea Trail) approximately 0.5 miles WEST of Hwy 7 and Lake Front Rd intersection. Power pole marked SOUTH side of road.	Power pole
5F1	Located at intersection of Hwy 7 and Pleasant View Rd (Town and Country Vetenarian Clinic). Power pole marked on SW corner of intersection.	Power pole
5F2	Located at intersection of Lake Shore Dr (Hwy 326) and Hwy 7. Power pole marked approximately 100 feet west of intersection.	Power pole
5G1	Located at intersection of Shiloh Rd and Baker's Creek Rd. Power pole marked on NE corner of intersection.	Power pole
5G2	Located on Hwy 124 (I-40 overpass) approximately 0.75 miles EAST of Hwy 7 and Hwy 124 intersection. Power pole marked on NW corner of bridge.	Power pole
5H1	Located at intersection of Hwy 124 and Shiloh Rd. Power pole marked on SW corner of intersection.	Power pole
5H2	Located on Hwy 124 approximately 200 feet SOUTH of Hwy 124, Sparksford Dr and Crow Mtn Rd intersection. Power pole marked west side of Hwy 124.	Power pole
5н3	Located at intersection of Weir Rd (Hwy 326) and Hob Nob Rd. Power pole marked in NE corner of intersection.	Power pole
511	Located at intersection of Hwy 124 and Center Valley Rd (Center Valley Elementary School). Power pole marked on NW corner of intersection.	Power pole
512	Located at intersection of Crow Mtn Rd and Cagle Rock Rd. Power pole marked on NW corner of intersection.	Power pole
513	Located at intersection of Hwy 331 and Bradley Cove Rd (NORTH of I-40). Power pole marked on NW corner of intersection.	Power pole

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Sample	Description	Marker
Pt.		Туре
5J1	Located on Hwy 124 at the Gum Creek Bridge. Bridge is approximately 1.25 miles NORTH of the Hwy 124 and Center Valley Rd intersection. Power pole marked NW side of bridge.	Power pole
5J2	Located at intersection of North Sherman Drive and Crow Mtn Rd. Power pole marked on SW corner of intersection.	Power pole
5J3	Located at intersection on Old Cove Rd and Bradley Cove Rd. Power pole marked approximately 100 feet EAST of intersection.	Power pole
6A1	Located at intersection of EAST ANO access road (intake canal) and May Rd. Power pole on SW corner of intersection marked.	Power pole
6A2	Located on Scott Lane approximately 0.3 miles EAST of the Scott Lane and May Rd intersection.	Post
6C1	Located at intersection of Cedar Shore Drive and Marina Rd. Power pole marked NW corner of	Power pole
6D1	Located on Hill Top Drive approximately 200 feet south of the Hilltop Dr and Hilltop Place intersection. No marker.	No marker
6E1	Located on West "C" Street approximately 100 feet EAST of North Seattle and West "C" intersection. Power pole marked on SW corner of West "C" St and North Seattle.	Power pole
6F1	Located at intersection of Hwy 7 and Hwy 124 (Whattaburger). Power pole marked on NW corner of intersection.	Power pole
6F2	Located at intersection of West Twelfth St and Phoenix Ave (Sequoyah Elementary School). Power pole marked on SOUTH side of street.	Power pole
6G1	Located at intersection of North Knoxville and D Street (Hughes Community Center). Power pole	Power pole
6G2	Located at intersection of Hwy 7 and East Nineteenth Street (Phil Wright Chevrolet). Power pole	Power pole
6н1	Located on Hwy 64 (EAST Main Street) approximately 0.1 miles EAST of the Hwy 64 and Elmira Ave.	Power pole
6H2	Located at intersection of East Nineteenth Street and Hwy 7T (Russellville High School). Power	Power pole
611	Located at intersection of Tyler Rd and Hwy 64. Power pole marked NW side of intersection.	Power pole
612	Located on Airport Rd approximately 0.5 miles SOUTH of the So Macon Av and Airport Rd intersection. (Northeast parking lot of the Russellville Airport). Power pole marked in parking lot.	Power pole
613	Located on Jimmy Lile Rd approximately 1.1 miles SOUTH of Hwy 331 and Jimmy Lile Rd intersection (entrance to Russellville Sewer Treatment facility). Power pole marked on NORTH side of entrance.	Power pole

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Sample Pt.	Description	Marker Type
6J1	Located at intersection of Old Cove Rd and Furniture Rd just NORTH of I-40 overpass. Power pole marked on EAST side of Pullen Rd up near EAST side of bridge.	Power pole
6J2	Located at intersection of Hwy 331 and Sweeden Rd. Power pole marked on SE corner of intersection.	Power pole
6J3	Located at intersection of Sweeden Rd and Sweet Rd approximately 0.8 miles NORTH of Hwy 247 and Sweeden Rd intersection. Power pole marked on EAST side of intersection.	Power pole
7 A 1	Located at intersection of May Rd and Bunker Hill Rd. Power pole marked approximately 100 feet WEST of intersection.	Power pole
7A2	Located at intersection of Bunker Hill Rd and Bunker Hill Ln. Power pole marked on SOUTH side of intersection.	Power pole
7C1	Located at intersection of Marina Rd (Hwy 326) and NORTH entrance to Lake Dardanelle State Park approximately 2.4 miles WEST of Hwy 64 and Marina Rd intersection. Power pole marked on EAST side of intersection.	Power pole
7C2	Located at intersection of Marina Rd (Hwy 326) and SOUTH entrance to Lake Dardanelle State Park approximately 3.0 miles WEST of Hwy 64 and Marina Rd intersection. Power pole marked on EAST side of intersection.	Power pole
7D1	Located at intersection of Heartland Dr and Marina Way (Hwy 326). Power pole marked on SOUTH side of road.	Power pole
7E1	Located at intersection of Skyline Drive (Hwy 326) and Turrentine Way. Power pole marked on EAST side of intersection.	Power pole
7F1	Located at intersection of Skyline Drive (Hwy 326) and Shepard Rd. Power pole marked on SW corner of intersection.	Power pole
7F2	Located on Old Post Rd at Lock and Dam. Turn SOUTH from Old Post Rd approximately 0.25 miles WEST of the Old Post Rd and Shepard Rd intersection. Proceed SOUTH through parking lot approximately 0.2 miles. Post marker on NORTH side of parking near creek.	Post
7G1	Located at intersection of Hwy 7, Hwy 7T and Hwy 326 (Russellville Honda). Power pole marked approximately 150 feet SW of intersection.	Power pole
7G2	Located at intersection of Old Post Rd and International Paper Co Rd approximately 0.9 miles from Hwy 7 and Old Post Rd intersection. Power pole marked on north side of road.	Power pole
7G3	Located at intersection of Dam Rd and Ridge Rd (Catfish Inn, Dardanelle) approximately 0.1 miles NORTH of Front St and Dam Rd intersection. Power pole marked on EAST side of intersection.	Power pole

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Pt. 7H1 I		
77771 7		Туре
\HT 1	Located on South Frankfort approximately 0.9 miles SOUTH of Hwy 7T and South Frankfort	Power pole
j	intersection. Power pole marked on SE corner of bridge (Whig Creek).	
7H2 I	Located at intersection of Hwy 7 and Hwy 247. Power pole marked approximately 0.1 miles EAST of intersection on NORTH side of Hwy 247.	Power pole
7H3 I	Located on Hwy 7 between Front Street and 2ND Street (Court House). Power pole marked on NW side	Power pole
	of Hwy 7.	
711 I	Located at intersection of Hwy 247 and Hawkins Rd approximately 1.2 miles EAST of Hwy 7 and Hwy 247 intersection. Power pole marked approximately 100 feet EAST of intersection.	Power pole
712 1	Located on Robinson Lane approximately 0.6 miles SOUTH of the Hwy 247 and Robinson Lane	Power pole
, 12	intersection (Robinson Sand and Gravel parking lot). Power pole marked in parking lot.	
7J1 1	Located at intersection of Hutcherson Rd and Hwy 247. Power pole marked on NORTH side of	Power pole
	intersection.	Power pole
7J2 1	Located at intersection of Howell Rd and Hutcherson Rd approximately 0.8 miles SOUTH of Hwy 247	Tower pero
	and Howell Rd intersection. Power pole marked on NE corner of intersection.	Power pole
8A1 I	Located on Bunker Hill Ln approximately 0.1 miles WEST of the Bunker Hill Ln and Bunker Hill Rd	Tower perc
	intersection. Power pole marked on NORTH side of road	No Marker
8D1 1	Located at EAST side of Bay Ridge Golf Course. Proceed NORTH on Yell County Road (YCR) 400 approximately 0.4 miles from the Hwy 22 and YCR 400 intersection. Proceed down the EAST leg of	NO MATROI
	approximately 0.4 miles from the Mwy 22 and ick 400 intersection. Froceed down the mast reg or	
	the "Y" approximately 0.2 miles. No marker Located NW of Bay Ridge Golf course on the upper loop. Proceed NORTH on Yell County Road (YCR)	No Marker
8D2 1	400 approximately 0.4 miles from the Hwy 22 and YCR 400 intersection. Take the WEST leg at the	110 11021102
'	"Y" and proceed approximately 0.9 miles. Take the NORTH leg of the "Y" approximately 0.4 miles	1
	to the top loop. Sample point at "T" where loop and road meet. No marker	
071	Located on Hwy 22 approximately 0.8 miles WEST of Yell County Road 51 (Near siren). Power pole	Power pole
	marked on NORTH side of road.	_
8E2	Intersection of Hwy 22 and Dardanalle State Park Road. Power pole marked on NORTH side of road.	Power pole
OEZ	(Sample point label is approximately 100 feet EAST of intersection)	_
8F1	Intersection of Hwy 22 and Yell County Road 51 (Pfeifer Lane). Power pole marked 100 yds WEST of	Power pole
041	intersection on SOUTH side of road.	
8F2	Located on Yell County Road (YCR) 915 approximately 0.7 miles NORTH of Hwy 155 (Mt. Nebo Road)	Power pole
012	and YCR 915 intersection. Power pole marked on EAST side of road.	
8G1	Intersection of Hwy 155 (Mt. Nebo Road) and Yell Count Road 51 (Pfeifer Lane). Power pole marked	Power pole
	on NW corner of intersection.	
8G2	Sample point located on Yell County Road (YCR) 915 approximately 0.2 miles SOUTH of Hwy 155 (Mt.	Power pole
002	Nebo Road) and YCR 915 intersection. Power pole marked on SW corner of intersection.	

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Sample Pt.	Description	Marker
8H1	Intersection of Hwy 22 and Hwy 155 (Mt. Nebo Road). Power pole marked on NW corner of intersection.	Type Power pole
8H2	Located on Hwy 27 (Dardanelle Veterinarian Clinic) approximately 1 mile WEST of the Hwy 7 and Hwy 27 intersection. Power pole marked on SOUTH side of road.	Power pole
8Н3	Located on Hwy 27 approximately 2.5 miles WEST of the Hwy 7 and Hwy 27 intersection. Power pole marked on NORTH side of road	Power pole
811	Intersection of Hwy 7 and Hwy 28. Power pole marked on NW corner of intersection.	Power pole
812	Intersection of Hwy 28 and Yell County Road 52. Monitoring point approximately 1.7 miles WEST of Hwy 7 and Hwy 28 intersection. Power pole marked on EAST side of road.	Power pole
813	Intersection of Hwy 28 and Yell County Road 415. Monitoring point approximately 2.2 miles SW of Hwy 7 and Hwy 28 intersection. Power pole marked on SW corner of intersection.	Power pole
8J1	Located on Yell County Road (YCR) 65 approximately 0.8 miles EAST of the Hwy 7 and YCR 65 intersection. Power pole marked on EAST side of road approximately 200 feet past actual point. (Dardanelle Sewage facility approximately 0.5 miles SOUTH of point.)	Power pole
8J2	Intersection of Hwy 7 and Hwy 155. Power pole marked on SE corner of intersection.	Power pole
8J3	Intersection of Hwy 28 and Yell County Road 47. Power pole marked on NW corner of intersection.	Power pole
9A1	Located at intersection of May Rd and Old Wagon Rd approximately 0.4 miles WEST of Bunker Hill Rd and May Rd intersection. Power pole marked on SE side of intersection.	Power pole
9D1	Intersection of Hwy 22 and Yell County Road 406 (Wildcat Hollow Road). Power pole marked on NORTH side of Hwy 22.	Power pole
9D2	Located on Yell County Road 406 (Wildcat Hollow Road) approximately 0.75 miles SW of Hwy 22 and YCR 406 intersection. Power pole marked on NORTH side of road.	Power pole
9E1	Intersection of Hwy 22 and Yell County Road 64 (East side of Jones Creek). Power pole marked on NORTH side of road.	Power pole
9E2	Located at intersection of Yell County Road 913 and Yell County Road 917. YCR 913 is located off YCR 64 which can be accessed from Hwy 22 or Hwy 155 (Mt. Nebo Road). Sample point is approximately 0.5 miles WEST of Yell County Road 64. Power pole marked on NW corner of intersection.	Power pole
9F1	Located on Yell County Road 64 approximately 0.6 miles NORTH of Hwy 155 (Mt. Nebo Road) and YCR 64 intersection OR 1.3 miles SOUTH of Hwy 22 and YCR 64 intersection. Power pole marked of East side of road.	Power pole

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Sample	Description	Marker
Pt.		Type
9G1	Located on Yell County Road 64 approximately 1.4 miles NORTH of Hwy 27 and YCR 64 intersection OR 0.7 miles SOUTH of Hwy 155 and YCR 64 intersection. Post marker located on WEST side of road near small bridge.	Post
9G2	Located on Yell County Rd 134 approximately 150 yds EAST of the Hwy 155 (Mt. Nebo Road) and YCR 134 intersection. From Hwy 155 (top of Mt Nebo) turn EAST (YCR 134) into picnic area and proceed approximately 150 yds. Power pole marked in picnic area.	Power pole
9н1	Located on Yell County Road 64 approximately 0.5 miles NORTH of the Hwy 27 and YCR 64 intersection OR 1.6 miles SOUTH of the Hwy 155 and YCR 64 intersection. Power pole marked on WEST side of road	Power pole
911	Located on Yell County Road (YCR) 46 (Oak Grove Church) approximately 0.5 miles SOUTH of Hwy 27 and YCR 46 intersection. Power pole marked on WEST side of road.	Power pole
912	Located at intersection of Hwy 27 and Yell County Road 44. Power pole marked on SW corner on intersection	Power pole
913	Located on Yell County Road 427 (YCR 427 is approximately 100 yds NORTH of the Hwy 27 and Yell County Road 39 intersection behind Slo Fork Grocery) approximately 0.8 miles NORTH of YCR 39 and YCR 427 intersection. Power pole marked on EAST side of road.	Power pole
9J1	Located at intersection of Yell County Road 47 and Yell County Road 46. Power pole marked on SW corner of intersection.	Power pole
9J2	Located on Yell County Road 412 approximately 0.2 miles SOUTH of the YCR 44 and YCR 412 intersection. Power pole marked on SOUTH side of road.	Power pole
9J3	Located on Hwy 27 at the intersection of Hwy 27 and Yell County Road 39. Power pole marked on NE corner of intersection.	Power pole
10A1	Located on May Rd approximately 0.8 miles WEST of May Rd and Bunker Hill Rd intersection. Power pole marked on NORTH side of road.	Power pole
10C1	Located on Hwy 22 approximately 2 miles WEST of the Hwy 22 and Yell County Road 406 (Wildcat Hollow Road) intersection. Power pole marked SOUTH of road.	Power pole
10D1	Located on Yell County Road 746. Take Yell County Road 406 (Wildcat Hollow Road) SOUTH from Hwy 22 approximately 1.5 miles. Turn right on YCR 746, go approximately 0.2 miles to "T" in road. Turn right, go approximately 0.2 miles. Power pole marked on NORTH side of road.	Power pole
10E1	Located on Yell County Road 406 (Wildcat Hollow Road) approximately 2 miles from the Hwy 22 and Yell County Road 406 (Wildcat Hollow Road) intersection. Power pole marked on SOUTH side of	Power pole
10F1	road. Located on Hwy 155 (Top of Mt. Nebo) on the NORTH end of the mountain. Power pole marked on the WEST side of the road approximately 150 yds SOUTH of monitoring point.	Power pole

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Sample	Description	Marker
Pt.		Type
10J1	Located on Yell County Road 39 approximately 1.5 miles WEST of Hwy 27 and Yell County Road 39 intersection (Slo Fork Grocery). Power pole marked 100 feet WEST of church (Point Robinson Church).	Power pole
10J2	Located on Yell County Road 39 approximately 2.1 miles WEST of Hwy 27 and Yell County Road 39	Power pole
10J3	Located at of Yell County Road 39 and Yell County Road 38 approximately 4.2 miles WEST of Hwy 27 and Yell County Road 39 intersection (Slo Fork Grocery). Power pole marked on SW corner of intersection	Power pole
11A1	Located SOUTH of ANO sewage treatment plant. Take W. Access Rd from plant approximately 0.2 miles. Turn SOUTH along EAST side of sewage treatment plant. Proceed approximately 0.1 miles. Turn WEST and proceed approximately 0.1 miles. Power pole marked on WEST side of road.	Power pole
11C1	Located on Hwy 393 at the EAST end of Delaware Recreation area (Loop Drive at end of road). Monitoring point is approximately 1 mile EAST of 12C1. No marker.	No marker
11D1	Located on Yell County Rd 409 (River Oaks Lane) approximately 0.2 miles NORTH of the Hwy 22 and YCR 409 intersection (Duryin Cemetery). Power pole marked on WEST side of road.	Power pole
11E1	Located on Delaware Bay Road (Logan County Line) approximately 0.6 miles SOUTH of the Delaware	Power pole
11E2	Located on Delaware Bay Road (Logan County Line) approximately 1.8 miles SOUTH of the Delaware Bay Road and Hwy 22 intersection. Power pole marked on SOUTH side of road.	Power pole
11F1	Located on Yell County Road 406 (Wildcat Hollow Road) approximately 4.1 miles WEST of the Hwy 22 and Yell County Road 406 intersection. Power pole marked on SOUTH side of road.	Power pole
11G1	Located on Yell County Road 406 (Wildcat Hollow Road) approximately 5.1 miles WEST of the Hwy 22 and Yell County Road 406 intersection (block building at site). Power pole marked on SOUTH side of road.	Power pole
1111	Located on Lee Nichols Rd approximately 3 miles SOUTH of the Lee Nichols Road and Hwy 22 intersection. Power pole marked on WEST side of road.	Power pole
12A1	Located on Star Harbor Rd approximately 0.2 miles WEST of Milky Way lane and Star Harbor Rd	Power pole
12C1	Located on Hwy 393 approximately 1.1 miles NORTH of the Hwy 393 and River Mtn Rd intersection (Where state maintenance ends on Hwy 393). Power pole marked on NORTH side of road.	Power pole
12D1	Located on Lakeview Road approximately 0.5 miles EAST of the Hwy 393 and Lakeview Road	Power pole
12D2	intersection. Power pole marked on SOUTH side of road. Intersection of Hwy 393 and River Mtn Rd approximately 1 mile NORTH of the Hwy 393 and Hwy 22 intersection. Power pole marked on NW corner of intersection.	Power pole

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Sample Pt.	Description	Marker Type
12E1	Intersection of Hwy 22 and Hwy 393. Power pole marked 50 yds NORTH of intersection on EAST side of road.	Power pole
12E2	Located on Spring Road approximately 0.2 miles NORTH of the Spring Road and Hwy 22 intersection (Delaware Assembly of God Church). Power pole marked on EAST side of road.	Power pole
12F1	Located on Johnson Ln approximately 0.7 miles SOUTH of the Johnson Ln and Hwy 22 intersection. Power pole marked on East side of road.	Power pole
12F2	Located on Hwy 22 approximately 1.5 miles WEST of the Hwy 22 and Hwy 393 intersection (Delaware Baptist Church and Graves Cemetery). Power pole marked 100 feet WEST of sample point on NORTH side of road.	Power pole
12G1	Located on Hwy 22 (John Graves broiler farm) approximately 0.9 miles EAST of the Lee Nichols Road and Hwy 22 intersection. Power pole marked on SOUTH side of road.	Power pole
12H1	Located on Lee Nichols Road (at bridge) approximately 1.5 miles SOUTH of the Hwy 22 and Lee Nichols Road intersection. Power pole marked on SW corner of bridge.	Power pole
12H2	Intersection of Hwy 22 and Lee Nichols Road. Power pole marked on SE corner of intersection.	Power pole
1211	Located on New Liberty Way Road (New Liberty Church) approximately 100 yds NORTH of the Hwy 22 and New Liberty Way Road intersection. Power pole marked on NORTH side of Hwy 22 approximately 100 yds SOUTH of monitoring point.	Power pole
12J1	Located on Brock Creek Road approximately 0.9 miles SOUTH of the Hwy 22 and Brock Creek Road intersection. Power pole marked on EAST side of road.	Power pole
13A1	Located at the intersection of Flatwood Rd, West Access Rd and Star Harbor Rd. Power pole marked on SE corner of intersection.	Power pole
13A2	Located at intersection of Milky Way Lane and Galaxy Ln. Power pole marked 100 ft. NW of intersection.	Power pole
13D1	Located on Riverside Rd approximately 0.7 miles NORTH of Hwy 393 and Riverside Rd intersection. Post marker on WEST side of road.	Post
13E1	Located on River Mtn Road (near double transmission lines) approximately 0.9 miles WEST of the River Mtn Road and Hwy 393 intersection (7.3 miles EAST of Hwy 22 and River Mtn Road intersection). Power pole marked on NORTH side of road.	Power pole
13E2	Located on Flurry Road approximately 0.8 miles NORTH of River Mtn. Road and Flurry Road intersection. Post marker on EAST side of road.	Post
13F1	Located on River Mtn Road approximately 2 miles WEST of the River Mtn Road and Hwy 393 intersection OR 5.8 miles EAST of the Hwy 22 and River Mtn Road intersection. Power pole marked on NORTH side of road. (State TLD site F-13)	Power pole

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ATTACHMENT 2

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Sample	Description	Marker
Pt.		Туре
13G1	Located on River Mtn Road approximately 3.3 miles WEST of the Hwy 393 and River Mtn Road intersection OR 4.8 miles EAST of the Hwy 22 and River Mtn Road intersection. Post marker approximately 150 yds NORTH of monitoring point in Arkla gas line right of way.	Post
13H1	Located on River Mtn Road approximately 5.1 miles WEST of the Hwy 393 and River Mtn Road intersection OR 3.0 miles EAST of the Hwy 22 and River Mtn Road intersection. Power pole marked on SOUTH side of road.	Power pole
1311	Located on River Mtn Road approximately 1.8 miles EAST of the Hwy 22 and River Mtn Road intersection OR 6.3 miles WEST of the Hwy 393 and River Mtn Road intersection. Power pole marked on SOUTH side of road.	Power pole
1312	Located on Panther Hollow Road (dirt road that runs NORTH from River Mtn Road approximately 5.7 miles WEST of the Hwy 393 and River Mtn Road intersection) approximately 0.2 miles NORTH of River Mtn Road. Power pole marked on NW corner of intersection (Pole is approximately 50 foot off road.)	Power pole
13J1	Located at the intersection of Hwy 22 and River Mtn Road. Power pole marked on NW corner of intersection.	Power pole
14A1	Located at the intersection of Round Mtn Rd and Flatwood Rd approximately 0.8 miles SOUTH of the Hwy 333 and Flatwood Rd intersection. Power pole marked on EAST side of road.	Power pole
14A2	Located on Flatwood Rd approximately 0.6 miles SOUTH of Hwy 333 and Flatwood Rd intersection. Power pole marked on EAST side of road.	Power pole
14B1	Located on Round Mtn Lane approximately 0.3 miles WEST of Flatwood Road and Round Mtn Lane intersection. Power pole marked on SOUTH side of road.	Power pole
14C1	Located at the intersection of Pine Hill Drive and McDonald Blvd. Take So Baptist Drive (located 0.4 miles SOUTH of railroad tracks of Hwy 333) SOUTH to Church Court. Travel WEST to London Cove Road. Turn West on McDonald Drive. Power pole marked on NORTH side of street.	Power pole
14C2	Located on Laddy Ln approximately 0.1 miles SOUTH of Hwy 64 and Laddy Ln intersection. Power pole marked on SOUTH side of road.	Power pole
14D1	Located at intersection of Hwy 64 and Cedar lane. Power pole marked on NE corner of intersection.	Power pole
14E1	Located on Hwy 64 (Brock's Cemetery) approximately 0.5 miles EAST of the Hwy 64 and Hwy 359	Power pole
14F1	Located on Hwy 64 approximately 0.3 miles WEST of the Hwy 64 and Hwy 359 intersection. Power	Power pole
14F2	Intersection of Hwy 359 and Johnson County Road 428 (Will Baker Rd.) approximately 1.0 miles NORTH of the Hwy 359 and Hwy 64 intersection. Power pole marked on SE corner of intersection.	Power pole

PROC./WORK PLAN NO.1905.002	PROCEDURE/WORK PLAN TITLE: OFFSITE EMERGENCY MONITORING	PAGE:	24 of 33
		CHANGE:	015-00-0

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Sample Pt.	Description	Marker Type
14G1	Located on Hwy 64 approximately 0.5 miles WEST of Piney Creek Bridge. Power pole marked on NORTH side of road.	Power pole
14H1	Located on Johnson County Road 341 approximately 1.6 miles SOUTH of SouthBend Rd. Power pole marked on SOUTH side of road.	Power pole
14H2	Located on Hwy 64 (Nulyne, Inc. Pallets and Skid Mill) approximately 1.3 miles EAST of Hwy 64 and Hwy 315 (Knoxville) OR 3.3 miles WEST of Hwy 359 and Hwy 64 intersection. Power pole marked on SOUTH side of road.	Power pole
1411	Located at intersection of Johnson County Road (JCR) 341 and JCR 342 approximately 0.5 miles SOUTH of SouthBend Rd and JCR 341 intersection. Power pole marked on EAST side of road.	Power pole
1412	Located on SouthBend Road approximately 1.0 miles SOUTH of Cabin Creek Rd and Old Hwy 64 intersection. Power pole marked on EAST side of road.	Power pole
1413	Located on Walnut St. at Knoxville Fire Department and City Hall. Power pole marked on WEST side of road.	Power pole
14J1	Located on SouthBend Rd (cemetery) approximately 1.3 miles WEST of SouthBend Road and JCR 341 intersection. Post marker located at cemetery	Post
14J2	Located on Cabin Creek Road (entrance to Cabin Creek park at Corps of Engineers sign) approximately 1.3 miles WEST of Old Hwy 64 and Cabin Creek Road intersection. Power pole marked on NORTH side of road.	Power pole
15B1	Located at intersection of Hwy 333 and Flatwood Rd. Power pole marked on NORTH side of road.	Power pole
15B2	Located on Pine Street (Hwy 333) approximately 200 ft SOUTH of Hwy 64 and Hwy 333 intersection (London City Hall). Power pole marked on WEST side of road.	Power pole
15C1	Located on Hwy 333 approximately 0.2 miles NORTH of Interstate 40. Power pole marked on EAST side of road.	Power pole
15D1	Located at intersection of Will Baker Rd and Georgetown Rd and Whorton Mtn Rd. Power pole marked on NW corner of intersection.	Power pole
15E1	Located at intersection of Will Baker Rd and Sycamore Rd (Pope-Johnson County Line). Power pole marked on SOUTH side of road.	Power pole
15E2	Located at intersection of Whorton Mtn Rd and Martin Chapel School Rd approximately 0.8 miles NORTH of Will Baker Rd and Whorton Mtn Rd intersection. Post marker on NORTH side of intersection.	Post
15F1	Located on Johnson County Road (JCR) 429 approximately 0.5 miles NORTH of Will Baker Rd and JCR 429 intersection. Post marker on NORTH side of intersection.	Post
15F2	Located on Whorton Mtn Rd approximately 0.3 miles NORTH of Whorton Mtn Rd and Stromett Rd intersection. Power pole marked on SOUTH side of road.	Power pole

PROCJWORK PLAN NO.1905.002	PROCEDURE/WORK PLAN TITLE: OFFSITE EMERGENCY MONITORING	PAGE:	25 of 33
		CHANGE:	015-00-0

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Sample Pt.	Description	Marker Type
15G1	Located at intersection of Hwy 359 and Johnson County Road 431. Power pole marked on SE corner of intersection.	Power pole
15G2	Located on Knoxville Rd approximately 0.9 miles EAST of the Hwy 359 and Knoxville Rd intersection. Power pole marked on NORTH side of road.	Power pole
15H1	Located on Johnson County Road (JCR) 461. From Hwy 359, turn WEST on JCR 447 and travel approximately 0.5 miles to JCR 461 (JCR 461 is a loop). Turn RIGHT on JCR 461 and travel approximately 0.5 miles to sample point. Power pole marked on WEST side of road.	Power pole
15H2	Located on Hwy 359 (Piney Bay Recreation Area) approximately 1.0 mile NORTH of the Hwy 359 and JCR 432 (Knoxville Rd) intersection OR 0.6 miles SOUTH of the Hwy 359 and JCR 45 (Hickeytown Rd) intersection. Power pole marked on WEST side of road.	Power pole
1511	Located at intersection of Hwy 315 and Johnson County Road 63 approximately 0.1 miles NORTH of Interstate 40. Power pole marked in SW corner of intersection.	Power pole
1512	Located at intersection of Bay View Circle and Johnson County Road 487 approximately 1.2 miles NORTH of Hwy 315. Power pole marked on NE corner of intersection.	Power pole
1513	Located at intersection of Hwy 359 and Johnson County Road 482 . Power pole marked on WEST side of road.	Power pole
15J1	Located at intersection of Hwy 64 and Cedar St approximately 0.5 miles WEST of Hwy 64 and Hwy 315 intersection. Power pole marked on NORTH side of road.	Power pole
15J2	Located at intersection of Hwy 315 and Johnson County Road 435 approximately 1.2 miles NORTH of I-40. Power pole marked on SE corner of intersection.	Power pole
16A1	Located on Hwy 333 (Bennett Orchard Estate) approximately 0.6 miles WEST of RERTC training center. Power pole marked on NORTH side of road.	Power pole
16B1	Located on Hwy 64 approximately 0.7 miles EAST of the Hwy 64 and Hwy 333 London intersection. Power pole marked on SOUTH side of road (approximately 100 feet SOUTH of Hwy 64).	Power pole
16B2	Located at intersection of School St and Old Wire Rd approximately 0.2 miles NORTH of Hwy 333 and School St intersection. Power pole marked on SE corner of intersection.	Power pole
16C1	Located at intersection of Sims Hollow Rd and Chimney Rock Rd approximately 0.5 miles EAST of Hwy 333 and Chimney Rock Rd intersection. Power pole marked SOUTH side of road.	Power pole
16D1	Located at intersection of Hwy 333 and Will Baker Rd. Power pole marked on NW corner of intersection.	Power pole
16D2	Located at intersection of Bailey Loop Rd and Dug Rd. Power pole marked on SE corner of intersection.	Power pole

PROC., ., ORK PLAN NO.1905.002	PROCEDURE/WORK PLAN TITLE: OFFSITE EMERGENCY MONITORING	PAGE:	26 of 33
		CHANGE:	015-00-0

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Sample Pt.	Description	Marker Type
16E1	Located on Hwy 333 (Martin Chapel Assembly of God Church) approximately 200 feet NORTH of Hwy 333 and Martin Chapel Rd intersection. Power pole marked on SE side of road.	Power pole
16E2	Located at intersection of Hwy 333 and Mill Creek Rd. Power pole marked on NORTH side of intersection.	Power pole
16F1	Located at intersection of Hickeytown Rd and Knoxville Rd. Power pole marked on SW side of road.	Power pole
16G1	Located at intersection of Hickeytown Rd and Mt Carmel Rd. Power pole marked on NORTH side of road.	Power pole
16G2	Located at intersection of Mt Carmel Rd and Pless School Rd. Power pole marked on NE corner of intersection.	Power pole
16H1	Located at intersection of Hickeytown Road and Hickey Mtn Loop approximately 1.0 miles EAST of Hwy 359. Power pole marked on SOUTH side of road.	Power pole
16H2	Located at intersection of Hickey Mtn Loop and Rainbow Lane approximately 1.0 miles NORTH of Mt Carmel Road and Hickey Mtn Loop intersection or 1.6 miles EAST of Hickeytown Rd and Hickey Mtn Loop intersection. Post marker on EAST side of intersection.	Post
1611	Located on Johnson County Road 444 approximately 2.3 miles EAST of Hwy 359 and JCR 444 intersection. Power pole marked on SOUTH side of road.	Power pole
1612	Located at intersection of Augsburg Rd and Pless School Rd. Post marker on NORTH side of intersection.	Post
16J1	Located on Hwy 359 (Madden Cemetery) approximately 0.2 miles NORTH of Hwy 359 and Johnson County Road 477 intersection. Power pole marked on EAST side of road approximately 200 feet NORTH of cemetery.	Power pole
16J2	Located on Hwy 359 (Piney Guest Ranch and Tree of Life Camp Grounds) approximately 0.1 miles SOUTH of the Big Piney Creek and Hwy 359 intersection. Power pole marked on EAST side of road.	Power pole
16J3	Located on Pipe Line Road (Johnson County Road 316) approximately 2.1 miles EAST of the Hwy 359 and Pipe Line Road intersection. Power pole marked on SOUTH side of road.	Power pole

Team	Designation:	I	Date:	

	Survey	*	
Time	Type(2)	Location(1)	Survey Results/Comments(3)
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- (1) Location may be described by map coordinates (e.g., sector A-1, E-3, etc.) or by other readily identifiable points (e.g., intersection of Highway 64 and 333).
- (2) Survey Type Record the appropriate number for each sample type in the "Sample Type" section above.
 - 1 General Radiation Levels (mRem/hr)
 - 2 Airborne particulates and/or iodine (µCi/cc)
 - 3 Contamination Levels (dpm/100 cm²)
 - 4 Other Specify the survey type in "Comments" section above.
- (3) Reference the following in the "comments' section provided above.
 - Other applicable forms completed as a portion of this survey, (e.g. 1905.031A).
 - Descriptions of survey conditions.
 - 3. Special Instructions/Precautions
- (4) Instrument Data

Instrument Type	Serial Number	Cal. Due
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	

FORM TITLE:		FORM NO.	CHANGE
	OFFSITE SURVEY LOG/RECORD	1905.002A	015-00-0

SURVEY	SAMPLE	ANAL.	COLL.	COLL.	SAMPLE	SAMPLE	LOCATION	D	ISPOSIT	ON	REPORT		
NUMBER	NUMBER	PRIOR.	DATE	TIME	TYPE	QUANT.		LAB.	DATE	TIME	DUE	REC.	
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FORM 1905.002C FOR RECORDS RETENTION.

FORM TITLE:	FORM NO.	CHANGE
ENVIRONMENTAL SAMPLE LOG	1905.002C	015-00-0

Sample I.D.#:	Survey No:
Sample Type:	Quantity:
Location:	Analyst:
Laboratory:	Report Date/Time:
Collection Date/Time:	Received By:
Analysis Date/Time:	
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
ISOTOPES	CONCENTRATION (pCi/ _)

FORM 1905.002D FOR RECORDS RETENTION.

FORM TITLE:	<u> </u>	FORM NO.	CHANGE
	RY ANALYSIS REPORT	1905.002D	015-00-0

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Date:	Time:
Team Designation:	
ERO Vehicle Type:	
Vehicle smeared? Yes No	Vehicle frisked? Yes No
Activity above background detected? Yes	□ No
IF activity above background is detected, THEN document a survey and notify RP Superv	ision.
<pre>IF activity above background is detected and or is not successful, THEN ensure the vehicle is controlled/poste</pre>	
THEN CHARLE THE VEHICLE TO CONTROL OF	
Dield wit Designation	
Field Kit Designation:	
Miscellaneous equipment smeared? Yes	□ No
Miscellaneous equipment frisked?	□ No
IF activity above background is detected, THEN document a survey and notify RP Superv	ision.
<pre>IF activity above background is detected an or is not successful,</pre>	
THEN ensure the material is controlled/post	ed as RADIOACTIVE MATERIAL.
Personnel on Field Team frisked/monitored?	Yes No
Activity above background detected or monit	or alarm?
IF activity above background detected, THEN complete the appropriate personnel con Supervision.	tamination documentation and notify RP

Attach Form 1905.002E to 1905.002G for review and records retention.

FORM NO.

CHANGE 015-00-0

1905.002E

DATE OF SURVEY	TIME OF SURVEY	SURVEY LOCATION*	GAMMA (mRem/hr)	μCi/cc IODINE	mRem/hr IODINE EQUIVALENT	J,
PREPAR	RED BY		DA'	re/time		-
REVIEW	WED BY		DA	TE/TIME		-
RECEIV	ED BY		DA'	re/TIME		
	ey Location Mile EPZ M	- As determined from tap.	he ANO 10 Mile	e EPZ Map	or the	
Survey	Data Sourc	e (Check One):				
	ADH D					
•mRem/	hr Todine e	muivalent = uCi/cc x 5	6 F8			

FORM TITLE:		FORM NO.	CHANGE
	ANO/ADH SURVEY DATA REPORT	1905.002F	015-00-0

OFFSITE RADIATION MONITORING TEAM CHECKLIST

Page 1 of 2

	An inventory of the Emergency	NOTE Kit is	not requi	red prior	to use.	
I.	Perform/check the following	items u	pon initia	al arrival	at the EOF	· •
	Team Designation Team Members (1) (3)			(2) (4)		
	 1. Dosimeters issued to 2. Respirators issued to [3. Pick up a set of antimember.] 4. Pick up handheld radio 5. Instruments: 	Team Me L-contam	embers. Re	othing for	are in the	e EOF kit. d team
	Instrument		Serial	Battery	Source	
		Model	Number	Check	Check	
	Frisker					
	Low Range Gamma					
	High Range Gamma					
	 6. Check fuel level (Fuel 7. Air sampler checked for 8. Radios tested - hand-lemont 9. Reported to Offsite Monassignment 	or opera neld []	tion and f vehicle [low indica	tion	y for
	Date			Time		
	The above items have been pe	erformed	, checked			
	Team Leader					·
	Signature			Date	Т	ime
II.	Perform/check the following succeeding Offsite Monitorin 1. Equipment replaced in 2. Vehicle, equipment, an	ng team. kit				
	1905.002E) 3. Samples labeled and tu					
	designee)					
	4. Team member doses reco Supervisor (or designe	orded and ee)	d turned o	ver to Off	site Monit	oring
	•					

FORM TITLE:	FORM NO.	CHANGE
OFFSITE RADIATION MONITORING TEAM CHECKLIST	1905.002G	015-00-0
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Page	2	οf	2
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5. Paperwork completed and turned over to Offsi designee)	te Monitoring Supervisor (or
6. Handheld radio and vehicle key turned over Supervisor (or designee)	to Offsite Monitoring
7. Turnover this completed form to the Offsite	Monitoring Supervisor
The above items have been performed/checked.	
Team Leader Date	_
Offsite Monitoring SupervisorSignature	Date
Form #1905.002G to be forwarded to Emergency Planni	ng for Record Retention.