

**Work Plan for the Oak Ridge Reservation Communities Alliance (ORRCA)
FY19 (July 1, 2018 thru June 30, 2019)**

Scope of Services:

A.2. The Grantee shall support implementation of the Tennessee Oversight Interlocal Agreement (TOIA)

The TOIA was renewed on June 14, 2016 and will continue to serve as the framework for the operation of ORRCA. ORRCA will continue to conduct outreach and educational activities to the public and potentially affected local governments.

At the U.S. Department of Energy's (DOE) annual Intergovernmental Meeting held in November 2017, a discussion was held among ORRCA, DOE and the State of Tennessee representatives to identify priorities for clean-up of the Oak Ridge Reservation. The parties agreed that ORRCA would serve as a key interface for ongoing collaboration on cleanup, reuse, and emergency planning/response issues.

A. 3. The Grantee shall promote local government involvement and public awareness in the continued operations of the Oak Ridge Reservation facilities, including, but not limited to the environmental restoration process.

ORCCA will continue to collaborate among the regional local governments to promote better understanding of the continued operations of the Oak Ridge Reservation facilities, including the environmental management and emergency response programs. Participation with DOE, EPA, TDEC, and TEMA officials in meetings, such as those listed in this plan as "Upcoming Meetings of Interest," will be instrumental in educating local officials in support of the grant scope.

During FY19 particular emphasis will be placed on:

- Improving local officials' and the public's understanding of regulatory waivers and the cost/benefit of this approach for the cleanup of the ORR
- Site characterization and the development of Waste Acceptance Criteria (WAC) for waste disposal
- Improving local officials' and the public's understanding of DOE's policy of integrating NEPA values into CERCLA, and associated costs/benefits
- Enhancing communication with DOE, EPA, and TDEC regarding local priorities and concerns related to Environmental Management Projects, Priorities and Budgets
- Improving understanding of Federal Facility Agreement (FFA) process and milestones
- Participating in Emergency Response Planning and Training related to the ORR
- Engaging in Environmental Management activities related to compliance with the National Historic Preservation Act and the Manhattan Project National Historical Park
- Continuing to enhance understanding of the relative risk associated with the ORR in order to improve off-site emergency planning and response

A.4. The Grantee shall disseminate accurate and factual information concerning present or proposed activities related to continued operations of the Oak Ridge Reservation facilities.

During FY19 particular emphasis will be placed on:

- Disseminating current information about the reindustrialization program at the East Tennessee Technology Park, including the availability of property for beneficial reuse
- Continuing to improve public education through dissemination of current and information on ORRCA's website
- Continuing to enhance public education about the quality of the natural environment in Oak Ridge and host counties through a coordinated communications program
- Continuing to educate local officials and other stakeholders from other DOE sites about ORR facilities and activities

A.5. The Grantee shall identify local concerns and issues relevant to the operation of the Oak Ridge Reservation and environs and present concerns to the State of Tennessee and the Department of Energy during the selection of annual work and budget priorities.

ORCCA will continue to engage with the State and DOE to improve understanding of local government and community concerns.

During FY19 ORCCA particular emphasis will be placed on:

- DOE's Strategic Plan for Mercury, including source reduction, treatment, storage and promotion of off-site disposal of mercury contaminated waste and soils
- Continued emphasis on reducing/mitigating/eliminating off-site impacts, particularly groundwater issues
- Modernization of water and wastewater infrastructure needed to support the ongoing DOE missions on the Oak Ridge Reservation
- Participation in site planning to complete the reindustrialization of ETP
- Schedule for shipments to the WIPP facility in New Mexico and disposition of the majority of the U-233 inventory
- Expediting studies related to treatment and reduction of mercury
- Risk Communication, including signage and other public communications
- Environmental Management activities that will help facilitate and expedite interpretation of historic properties
- Transfer of excess/underutilized property for economic and community development
- CERCLA's Natural Resources Damages Assessment study and mitigation for the ORR

A.6. The Grantee shall prepare special studies and reports, as needed, to educate local officials and further public information.

During FY19 particular emphasis will be placed on:

- Review and assessment of projects related to the cleanup of the Oak Ridge Reservation and related offsite activities such as restoration of groundwater and fish
- Providing a local government mechanism for input into DOE's budgetary and programmatic priorities
- Continue to provide input into how financial performance bonds are assessed on companies which store and treat DOE waste
- Legislative, Regulatory, and Administrative activities at the Federal and State levels related to the storage, transportation and permanent disposal of nuclear waste

Upcoming Meetings of Interest:

Implementation of the Manhattan Project

National Historical Park

Energy Communities Alliance Conference Call

June 28, 2018

1:00-3:30 p.m. Eastern

Safety Fest TN 2018

Sponsored by: Oak Ridge Business Safety Partnership

September 10-14, 2018

Location: New Hope Center

DOE National Cleanup Workshop

Co-sponsored by Energy Communities Alliance

September 11-13, 2018

Location: Alexandria, VA

DOE Annual Intergovernmental Meeting

November 14-16, 2018

Location: New Orleans, LA

2019 Waste Management Symposia

March 3-7, 2019

Location: Phoenix, AZ

Multi-Agency Fire Response Conference

March 2019

Oak Ridge, TN

Energy Communities Alliance Annual Meeting

Spring 2019

Location TBD

TDEC Environmental Show of the South

Spring 2019

Location TBD

Energy Communities Alliance Peer Exchange on the

Summer 2019

Manhattan Project National Historical Park

Dispute Resolution Agreement

This Formal Dispute Resolution Agreement memorializes the Federal Facility Agreement (FFA) parties' agreement regarding the *Remedial Investigation/Feasibility Study (RI/FS) for Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Waste Disposal for Oak Ridge Reservation Waste Disposal Oak Ridge, Tennessee (DOE/OR/01-2535)*. The US Department of Energy initiated a formal FFA dispute with the objective of moving the CERCLA process forward. The Senior Executive Committee has agreed to resolve this dispute as stated below.

Issues Discussed:

The US Department of Energy (DOE), the US Environmental Protection Agency (EPA), and the State of Tennessee's Department of Environment and Conservation (TDEC) dispute discussions eventually focused on:

- Site Characterization
- Applicable or Relevant and Appropriate Requirements (ARARs) and To Be Considered (TBCs).
- Modeling used to develop preliminary Waste Acceptance Criteria (WAC).

Resolution:


The Parties agree that:

1. Subject to the terms and conditions of this agreement, the Parties agree to give their best efforts to work jointly to issue a Proposed Plan within approximately 60 days of executing this agreement.
2. The Proposed Plan will identify Central Bear Creek Valley (Site 7C) as the preferred location for onsite disposal of CERCLA mixed low level waste on the Oak Ridge Reservation.
3. The Proposed Plan will include a TDEC/EPA approved Field Sampling Plan (FSP) as an appendix. The FSP shall reflect mutual agreement of the parties to implement data collection identified in the "Statement of Work" provided by EPA and TDEC for Site 7C. The results and analysis of the field investigation in accordance with the FSP shall be included in the administrative record and the Proposed Plan public comment period shall be provided thereafter. This field investigation, and EPA/TDEC's review of the results thereof, shall be conducted prior to execution of the Record of Decision (ROD) and shall be used in selecting the remedy.
4. Per DOE Order 435.1, DOE will issue a preliminary Disposal Authorization Statement for onsite disposal of CERCLA mixed low level waste on the Oak Ridge Reservation prior to signing the ROD. DOE issued a letter to EPA and TDEC dated July 7, 2016 concerning "Response to Action from Environmental Program Council Meeting on May 24, 2016, Regarding Compliance with U.S. Department of Energy Order 435.1 for a New Onsite Disposal Facility." That letter stands and is incorporated by reference into this dispute resolution agreement.

Dispute Resolution Agreement

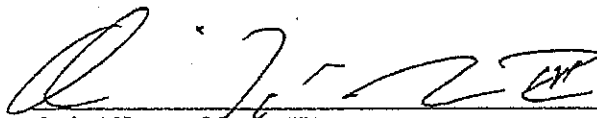
5. DOE shall provide funding to TDEC for FFA related oversight activities such as independent verification of modeling through a \$250,000 grant.

6. The attached RI/FS Appendix G preliminarily reflects the ARARs and TBCs. The ROD will determine the final version of Appendix G (and waivers with justification, if necessary) considering new information gathered after the Proposed Plan and all public comment received. Appendix G does not currently reflect agreement regarding DOE Order and Manual TBCs as citations, however the parties will resolve this issue prior to signature of the ROD



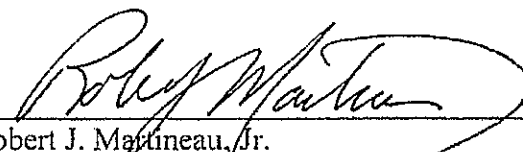
John A. Mullis II
Manager
Oak Ridge Office of Environmental Management

12/07/2017
Date



Onis "Trey" Glenn, III
Regional Administrator
U.S. Environmental Protection Agency, Region 4

12/7/17
Date



Robert J. Mattineau, Jr.
Commissioner
Tennessee Department of Environment and Conservation

Dec. 7, 2017
Date

Appendix E Acronyms/Abbreviations

AM	Action Memorandum
ARAR	Applicable or Relevant and Appropriate Requirement
BCV	Bear Creek Valley
Char	Characterization
CS	Construction Start
DARA	Disposal Area Remedial Action
Demo	Demonstration
DOE	Department of Energy
D&D	Decontamination and Decommission
Eco	Ecology
EM	Environmental Management
EMWMF	Environmental Management Waste Management Facility
EPA	Environmental Protection Agency
Eq	Equipment
ETTP	East Tennessee Technology Park
EU	Exposure Unit
FY	Fiscal Year
LR/LC	Low Risk/Low Contamination
NSC	National Security Complex
ORNL	Oak Ridge National Laboratory
ORR	Oak Ridge Reservation
PCCR	Phased Construction Completion Report
Ph.	Phase
PIP	Public Involvement Plan
PUF	Predominantly Uncontaminated Facility
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RAR	Remedial Action Report
RAWP	Remedial Action Work Plan
RDR	Remedial Design Report
RDWP	Remedial Design Work Plan
RER	Remediation Effectiveness Report
RIWP	Remedial Investigation Work Plan
RmAR	Removal Action Report
ROD	Record of Decision
RSE	Remedial Site Evaluation
SAP	Sampling & Analysis Plan
TDEC	Tennessee Department of Environment and Conservation
TSCA	Toxic Substance Control Act
TSWP	Treatability Study Work Plan
UEFPC	Upper East Fork Poplar Creek

**FY 2018 – 2020 Federal Facility Agreement Milestones
Appendix E**

Site	Project/Subproject	FY 2018 Milestones		FY 2019 Milestones		FY 2020 Milestones	
ETTP	Final ETTP Zone 1/Zone 2 ROD ¹	Ph. II Pilot Demo TSWP	9/8/18	Ph. II CS	1/30/19	TS Report PP	12/16/19 3/31/20
	Zone 1 Interim ROD						
	EU 50			PCCR	4/30/19		
	Zone 1 Final Soil ROD ²						
	Zone 2 Soil ROD (4/19/05) ³						
	Central Area (EUs 24, 25, 26, 31, 32)			RA Start	12/11/18		
	Centrifuge Area (EUs 33, 34, 37, 42, 43)			RA Start	9/30/19		
	K-1037 & TSCA Area (EUs 30, 35, 36, 39, 40, 41, 44)	RA Start	8/9/18				
	K-25 Area (EUs 20, 21, 22, 23)			RA Start	12/1/18	PCCR	9/30/20
	Poplar Creek Area (EUs 11, 12, 13, 14, 15)	RA Start	9/12/18				
	EU 28	PCCR	4/30/18				
	EU 29	PCCR	7/31/18				
	K-25/K-27 D&D AM (3/8/02)	RmAR	12/30/17				
	Remaining Facilities D&D AM (9/12/03)						
	Balance of Site ⁴	PCCR (FY 2017) LR/LC – PUF	12/15/17	PCCR (FY 2018) LR/LC – PUF	12/15/18	PCCR (FY 2019) LR/LC – PUF	12/15/19
	Poplar Creek Facilities					PCCR	10/19/19
K-1037					PCCR	2/11/20	
Centrifuge Eq. Removal				PCCR	9/30/19		
ORNL	Bethel Valley ROD (5/2/02)						
	Bethel Valley Groundwater ROD (TBD)	Ph. I MV/BV Exit Pathway RIWP	9/30/18				
	Final Bethel Valley ROD (TBD)					RIWP	6/30/20

**FY 2018 – 2020 Federal Facility Agreement Milestones
Appendix E**

Site	Project/Subproject	FY 2018 Milestones		FY 2019 Milestones		FY 2020 Milestones	
Y-12 Site	UEFPC Phase I ROD for Source Control Actions (5/2/02)						
	Outfall 200	RDR/RAWP CS	12/7/17 9/30/18				
	Y-12 Buildings AM (9/29/10)			PCCR (Colest West Side)	10/30/18		
	Biology Buildings (9743-2 & 9770-2)	PCCR	9/30/18				
	Beta 4 Facility	WHP (Char. Activities)	6/11/18				
	BCV Interim ROD (6/16/00)						
ORR General	Water Resources Restoration Program	RER	3/30/18	RER	3/30/19	RER	3/30/20
	EMWMF ROD (11/11/99)	PCCR	4/1/18	PCCR	4/1/19	PCCR	4/1/20
	EM Disposal Facility	ROD	9/17/18	RDWP	6/18/19	RDR/RAWP	5/22/20
Other	Public Involvement Plan			PIP	5/30/19		

General Note: Gray-shaded cells are subprojects to the CERCLA Decision Project (unshaded) listed immediately above.

- ¹ The TSWP and CS milestone dates are estimated based on completion of the TS design characterization activities and may be modified based on the actual completion date of the design characterization activities or removed from Appx. E if the results reflect negative conditions for proceeding with Phase II.
- ² The four post-ROD milestones will be temporarily suspended. Upon approval of the Zone 1 Final Soil ROD, schedules for this work will be generated and these milestones will be added back to the enforceable milestones.
- ³ For Zone 2 EU Groups, notification of RA starts with identified milestones will be sent via email specifying the date started and the EU addressed.
- ⁴ A PCCR will be submitted each December for all LR/LC & PUF demolition work completed the previous FY. DOE will identify in March each FY which facilities, if any, will be completed. If there are none, the PCCR milestone will be approved for removal for that FY.

Appendix J Non-Enforceable Out-Year Planning Targets

Site	Project	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	
ETTP	Final ETTP Zone 1/Zone 2 (Site-wide) ROD			ROD		RAR																							
	Zone 2 Soil ROD			RAR																									
	Central Area (EUs 24, 25, 26, 31, 32)	PCCR 4/30/21																											
	Centrifuge Area (EUs 33, 34, 37, 42, 43)	PCCR																											
	K-1037 & TSCA Area (EUs 30, 35, 36, 39, 40, 41, 44)	PCCR																											
	North by Northeast Area (EUs 27, 28, 29, 38)	PCCR 4/30/21																											
	Peninsula Area (EUs 16, 17, 18, 19)	PCCR																											
	Poplar Creek Area (EUs 11, 12, 13, 14, 15)	PCCR 9/30/21																											
	Remaining Facilities AM	RmAR																											
ORNL	Balance of Site	PCCR FY 20 6/30/21																											
	MV Reactors & Facilities ROD												Start						ROD									RAR	
	MV Final ROD													Start			ROD	RAR											
	MSRE ROD Salt Remediation												Start							RAR									
	BV Interim ROD						Isotope Comp. D&I Start	Reactor Fac. Start					Isotope comp. PCCR				Reactor Fac. PCCR											RAR	
Final BV ROD																		ROD	RAR										

Appendix J Non-Enforceable Out-Year Planning Targets

Site	Project	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047		
	Non-Watershed Sites ROD																						Start		ROD			RAR		
Y-12	UEFFPC Ph. 1 ROD																												RAR	
	Out-Fall 200-Hg WTF ¹	PCCR 9/30/21																												
	UEFFPC Ph. 2 - Soils ROD ²				Start																								RAR	
	Final UEFFPC ROD												Start	ROD	RAR															
	EFPC Surface Water ROD												Start		ROD		RAR													
	Y-12 Buildings Demo AM		RmAWP				PCCR Beta 4			PCCR Alpha 5		PCCR Alpha 4													RmAR					
	BCV Ph. 1 ROD												RAR																	
	BCV Burial Ground ROD											Start			ROD										RAR					
	White Wing Scrapyard ROD											Start			ROD															
	Final BCV ROD																		Start	ROD					RAR					
	Chestnut Ridge ROD																Start		ROD						RAR					
OR Site	Clinch River/Poplar Creek ROD SW																							Start		ROD	RAR			
	EMWMF ROD	PCCR 4/1/21	PCCR	PCCR	PCCR	PCCR w/Haul Road	PCCR									RAR														
	Remediation Effectiveness Report	RER 3/30/21	RER	RER ¹	RER ¹	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER	RER
	EM Disposal Facility		CS																											RAR
	Five Year Review		FYR					FYR																						
Other	Public Involvement Plan		PIP ³																											

¹ Pursuant to DRA for OF200 MTF dated May 2015, there will be two years of performance testing following completion of construction and startup with the results included in the annual RER.

² The mercury strategy will support a west to east UEFFPC prioritization of remediation activities.

³ Update every 3 years as determined by the FFA Project Managers



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Remediation - Oak Ridge
761 Emory Valley Road
Oak Ridge, Tennessee 37830

April 19, 2018

Mr. John Michael Japp
Federal Facility Agreement Manager
Oak Ridge Office for Environmental
Management
Department of Energy
P.O. Box 2001
Oak Ridge, TN 37831

Mr. William G. McMillan
Portfolio Federal Project Director
Oak Ridge National Laboratory
Oak Ridge Office of Environmental
Management
Department of Energy
P.O. Box 2001
Oak Ridge, Tennessee 37831

Dear Mr. Japp and Mr. McMillan:

Re: Offsite Groundwater Sampling (dated: March 20, 2018)

The Tennessee Department of Environment and Conservation (TDEC), Division of Remediation Oak Ridge Office (DoR-ORO), has reviewed the above referenced letter pursuant to the Federal Facility Agreement for the Oak Ridge Reservation.


TDEC would like to thank DOE for the willingness to sample 14 offsite residential wells annually during the wet season for 3 years starting in 2019. TDEC agrees with the 14 wells selected for sampling and the proposed analyte suite.

TDEC feels that this sampling effort should be conducted under the Federal Facility Agreement. A meeting with DOE, EPA, and TDEC needs to be held to discuss Phase II or a possible continuum of the *Offsite Groundwater Assessment (OFF GWA) Remedial Site Evaluation, Oak Ridge, Tennessee (DOE/OR/01-2715&D2)*. The results of the sampling should be included in a written report.

Questions or comments concerning the contents of this letter should be directed to Randy Young at (865) 220-6584.

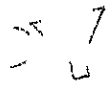
Mr. Japp and Mr. McMillan
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April 19, 2018

Sincerely



Randy C. Young,
FFA Manager

xc Constance Jones, EPA
Carl Froede, Jr., EPA
Pat Halsey, DOE
John Michael Japp, DOE
Dennis Mayton, DOE
Amy Fitzgerald, ORRCA
Traci Cofer, ORRCA
Ron Woody, ORRCA
Pete Osborne, SSAB





STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Remediation - Oak Ridge
761 Emory Valley Road
Oak Ridge, Tennessee 37830

April 11, 2018

Mr. John Michael Japp
Federal Facility Agreement Manager
Oak Ridge Office of Environmental Management
U.S. Department of Energy
Post Office Box 2001
Oak Ridge, Tennessee 37831

Dear Mr. Japp

Department of Energy Oak Ridge Environmental Management Fiscal Year 2020 Budget Request

In accordance with the Oak Ridge Reservation (ORR) Federal Facility Agreement (FFA) Section XXXVIII (Funding), the Tennessee Department of Environment and Conservation (TDEC), Division of Remediation Oak Ridge Office (DoR-ORO) has identified the following unresolved issues associated with OREM's proposed budget request for FY2020.

1. Sampling activities conducted by TDEC staff off the ORR during the past decade have identified DOE contaminants (presently below a CERCLA risk level requiring immediate remedial action) migrating from the ORR plant sites via discrete groundwater pathways to public property surrounding the ORR. Though the FFA parties identified resources within past funding appropriations to complete a small off-site groundwater investigation and perform a limited action to address a known off-site pathway, the subject OREM funding request does not identify adequate resources to complete the necessary, detailed groundwater investigations which have been generally deferred since the signing of the ORR FFA in 1992. The ORR served as a regional radiological waste disposal site for decades during the last half of the twentieth century. Numerous known groundwater plumes have yet to be delineated or controlled. Given the millions of curies of radioactive contaminants which DOE buried or injected into the ground on the ORR, the more than fifty inches of annual rainfall, the relatively shallow distance to groundwater across the ORR, and the known potential of contaminant migration via karstic fracture flow in the ORR geology, the budget request must identify the need for significant, dedicated funds to implement CERCLA groundwater investigations and remedies on the ORR. This is of particular concern given DOE's current request to construct another waste disposal facility on-site that has the potential to add to the existing impacts to groundwater.

Mr. John Michael Japp

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April 11, 2018

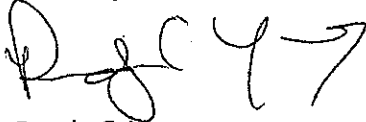
2. Recent Congressional appropriations have attempted to address a few of the larger OREM program initiatives such as decontamination and demolition (D&D) of excess facilities at the Y12 facility, closure of the East Tennessee Technology Park (ETTP), and construction of another on-site CERCLA waste disposal facility on the ORR. Each of those initiatives and the previously mentioned groundwater decisions on the ORR are multi-year projects that will likely result in long-term environmental impacts for the citizens of Tennessee. These larger, more complex environment projects will require an increased level of TDEC oversight and involvement to fulfill our mission to be stewards of our environment by protecting and improving the quality of Tennessee's air, land, and water through a responsible regulatory program. Yet, OREM's most recent budget request will result in nearly a 20% decrease in funding of Oak Ridge community and regulatory support. To ensure TDEC support is available to implement these large-scale, multi-year projects, the budget request must reflect the necessary funding to allow the community and regulators the involvement required to minimize further degradation of environmental resources in the Oak Ridge area.

3. OREM's current plan to initiate large-scale D&D projects at the Y12 facility within the next five years is welcomed by TDEC. However, as a lesson learned from the lack of integration between the D&D projects and soil projects at the ETTP, a better plan must be developed for the complex facilities within the Y12 facility and the associated contaminated soils. Until such time as the remedial actions are complete at the Y12 facility, future funding requests must specifically identify necessary resources to expeditiously conduct soil remediation around and underneath the large contaminated facilities as D&D projects are completed.

In accordance with Section XXXVIII, paragraph C of the ORR FFA, if the issues above cannot be resolved prior to DOE-OR's budget request to DOE-HQ, then the issues should be forwarded along with the budget request.

Questions or comments concerning the contents of this letter should be directed to Randy Young at (865) 220-6584.

Sincerely



Randy C. Young,
FFA Manager

xc Connie Jones, EPA
 Pat Halsey, DOE
 Amy Fitzgerald, ORCCA
 Pete Osborne, SSAB
 Ron Woody, ORRCA
 Traci Cofer, ORRCA

COPY



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Remediation - Oak Ridge
761 Emory Valley Road
Oak Ridge, Tennessee 37830

April 11, 2018

Mr. John Michael Japp
DOE FFA Project Manager
PO Box 2001
Oak Ridge TN 37831-8540

Dear Mr. Japp

**Remedial Design Report/Remedial Action Work Plan for Water Treatment at Outfall 200 in the Upper East Fork Poplar Creek Characterization Area, Oak Ridge, TN
DOE/OR/01-2735&D2
March 2018**

The Tennessee Department of Environment and Conservation, Division of Remediation, Oak Ridge Office, has reviewed the above referenced document pursuant to the Federal Facility Agreement (FFA) for the Oak Ridge Reservation. The State has no additional comments regarding the contents of this document. However, because the work is being performed under CERCLA and the FFA, the substantive requirements of an individual Aquatic Resource Alteration Permit (ARAP) application must be proposed and approved in a FFA document prior to construction. Therefore, the State expects DOE to submit an addendum to this Remedial Design Report that contains details on how the project will meet the substantive requirements for an ARAP including such issues as stream mitigation and specific details of how work will be performed in the Upper East Fork Poplar Creek to minimize the spreading of contamination downstream.

Questions or comments concerning the contents of this letter should be directed to Curt Myers at the above address or by phone at (865)220-6565.

Sincerely

Randy C. Young
FFA Project Manager

COPY

xc Jon Richards, EPA
Constance Jones, EPA
Pat Halsey, DOE
Dave Adler, DOE

Joy Sager, DOE
Amy Fitzgerald, ORRCA
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Ron Woody, ORRCA
Pete Osborne, ORSSAB



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Remediation - Oak Ridge
761 Emory Valley Road
Oak Ridge, Tennessee 37830

March 28, 2018

Mr. John Michael Japp
Federal Facility Agreement Manager
Department of Energy
Oak Ridge Operations Office
PO Box 2001
Oak Ridge TN 37831

Dear Mr. Japp

Review of DOE's Proposed 2018 Federal Facility Agreement (FFA) Appendix J Update

The Tennessee Department of Environment and Conservation (TDEC), Division of Remediation Oak Ridge Office (DoR-ORO), has reviewed DOE's proposed revisions to Appendix J of the Federal Facility Agreement (FFA) for the Oak Ridge Reservation (ORR) submitted on March 15, 2018. Based on the review of the subject submittal and DOE's Dynamic Planning Model (DPM), TDEC has the following comments on the proposed FFA Appendix J:

1. Based on DOE's plans to re-initiate work on Buildings 3026 and 3028 in Bethel Valley, appropriate work plan(s) should be milestone for FY 2022.
2. With the development of a Phase I Remedial Investigation Work Plan (RIWP) for Oak Ridge National Laboratory groundwater exit pathways at the end of FY 2018, the parties should establish a milestone for the report on this activity within the five-year window.
3. TDEC has repeatedly stated our concerns with the DOE's current path forward of implementing the most complex Decontamination and Decommissioning (D&D) activities for the UEFPC Watershed under removal action authority. DOE has maintained that they will involve TDEC in the planning of demolition and waste management activities for facilities such as Beta 4 and Alpha 5.

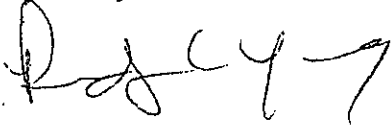
However, the proposed Appendix J fails to show any expanded involvement other than a Removal Action Work Plan in FY 2023. Based on the current DPM, DOE plans to spend over \$250M on these two D&D projects prior to TDEC ever receiving a work plan.

4. The Bear Creek Valley Record of Decision (BCV ROD) was signed over 15 years ago by the FFA parties. Approximately 10 years ago and documented in the FY 2016 Remediation Effectiveness Report (RER), DOE's data collection indicated NT-8 is "a significant contributor of uranium to Bear Creek" and approximately 50kg of uranium (over half of the total uranium discharge) is being directly discharged annually to Bear Creek. Yet, no milestones are being proposed by DOE to address this issue.
5. The subject submittal proposes a ROD and Remedial Action Work Plan (RAWP) for the final site wide decision at East Tennessee Technology Park (ETTP). Yet, a groundwater investigation for plumes originating from the K-1070-C/D burial ground, for example, has not been scoped or milestone.
6. The following ongoing demolition activities at ETTP require Phased Construction Completion Report (PCCR) milestones:
 - a. Central Neutralization Facility (CNF); and
 - b. K-1314-G/H Facilities.
7. Based on recent project team agreements to complete Zone 1 interim remedial actions at ETTP, the following milestones should be added to the proposal:
 - a. RAWP (or addendum to existing RAWP) for remediation of Zone 1 electrical vaults;
 - b. PCCR (or addendum to existing PCCR) for K-770 area; and
 - c. PCCR for K-722 area.
8. As proposed by DOE in the Off-site Groundwater Assessment Remedial Site Evaluation Work Plan-Phase 1 and agreed to by all FFA parties, DOE should milestone a work plan for Phase 2 of the evaluation to continue with the analysis of DOE contaminants that migrate off the ORR via groundwater.

Mr. John Michael Japp
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March 28, 2018

Questions or comments concerning the contents of this letter should be directed to Randy Young at (865) 220-6584.

Sincerely



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FFA Manager

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