

Department of Energy

Oak Ridge Office of Environmental Management P.O. Box 2001 Oak Ridge, Tennessee 37831

January 23, 2019

DISTRIBUTION

SEMIANNUAL STATUS REPORT IN ACCORDANCE WITH THE MEMORANDUM OF AGREEMENT FOR DECOMMISSIONING AND DEMOLITION OF THE K-25 SITE AND INTERPRETATION OF THE EAST TENNESSEE TECHNOLOGY PARK

The purpose of this letter is to transmit the subject document in accordance with Stipulation 19 of the final Memorandum of Agreement for the interpretation of historic properties at the East Tennessee Technology Park. This document was prepared consistent with the stipulations of the Memorandum of Agreement and is being sent for your information. As required, copies of this status report will be made publicly available in the DOE Information Center Public Reading Room in Oak Ridge, Tennessee.

If you have any questions or if we can be of further assistance, please contact Steve Cooke at (865) 241-1259 or me at (865) 576-0742.

Sincerely,

John A Mullis II Manager

Enclosure

cc w/enclosure:

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SEMIANNUAL STATUS REPORT IN ACCORDANCE WITH THE MEMORANDUM OF AGREEMENT FOR DECOMMISSIONING AND DEMOLITION OF THE K-25 SITE AND INTERPRETATION OF THE EAST TENNESSEE TECHNOLOGY PARK

Identical Letter sent to:

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SEMIANNUAL STATUS REPORT IN ACCORDANCE WITH THE MEMORANDUM OF AGREEMENT FOR DECOMMISSIONING AND DEMOLITION OF THE K-25 SITE AND INTERPRETATION OF THE EAST TENNESSEE TECHNOLOGY PARK

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U.S. Department of Energy Oak Ridge Office of Environmental Management

> Semiannual Status Report in Accordance with the Memorandum of Agreement for Decommissioning and Demolition of the K-25 Site and Interpretation of the East Tennessee Technology Park

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AMSE American Museum of Science and Energy CICO Classification and Information Control

City City of Oak Ridge CP Consulting Parties

DOE U.S. Department of Energy
ECI Export Controlled Information
ETTP East Tennessee Technology Park

HAER Historic American Engineering Record

MOA Memorandum of Agreement

MP Museum Professional

NNSA National Nuclear Security Administration

NPS National Park Service

OREM Oak Ridge Office of Environmental Management

ORNL Oak Ridge National Laboratory
PSDT Professional Site Design Team

RFP Request for Proposal

UCOR URS | CH2M Oak Ridge LLC

Status of Memorandum of Agreement Stipulations:

<u>Stipulation 1</u> – Offer Invited Signatory Status to the National Park Service (NPS)

Although the Manhattan Project National Historical Park had not been established at the time the Memorandum of Agreement (MOA) for Decommissioning and Demolition of the K-25 Site and Interpretation of the East Tennessee Technology Park (ETTP) was executed, the U.S. Department of Energy (DOE) Oak Ridge Office of Environmental Management (OREM) offered the NPS the opportunity to sign the MOA as a Concurring Party. NPS signed the MOA on August 1, 2012. In December 2014, the Manhattan Project National Historical Park was established in law, as codified in Subsection 3039 of the Carl Levin and Howard P. "Buck" McKeon National Defense Authorization Act for Fiscal Year 2015. Subsequently, OREM extended an invitation to NPS to be an Invited Signatory Party to the MOA. In April 2015, NPS informed OREM that it preferred to remain a Concurring Party to the MOA. In July 2018, as part of the discussions on the need for an MOA Amendment to provide additional time to complete the MOA stipulations, NPS requested a change in its role from Concurring Party to Invited Signatory Party. In December 2018, OREM transmitted a proposed MOA Amendment to the Signatory and Invited Signatory Parties that would, among other things, give NPS the opportunity to sign the Amendment as an Invited Signatory Party and recognize the inclusion of the K-25 Building Site as part of the Manhattan Project National Historical Park.

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Stipulation 2 – K-25 Historic Preservation Coordinator Appointment

On August 1, 2012, OREM appointed a K-25 Historic Preservation Coordinator who is responsible for executing the provisions of the MOA. A Coordinator will be in place for the duration of the MOA.

The final executed MOA (with all signatures), Execution Plan, and Mitigation Plan were formally transmitted to the Consulting Parties (CP) on November 9, 2012. Thus, all Stipulation 2 requirements have been completed.

Stipulation 3 – Formal Dedication of the K-25 Preservation Footprint

The K-25 structural demolition was completed in December 2013, and the disposition of project waste was completed in June 2014. The footprint of the former K-25 Building is being preserved consistent with the MOA. Stipulation 3 of the MOA calls for the formal dedication of the K-25 Preservation Footprint coincident with the public opening of the Equipment Building, Viewing Tower, or the History Center, whichever occurs first. In December 2018, OREM transmitted a proposed MOA Amendment to the Signatory and Invited Signatory Parties that would make this formal dedication of the K-25 Preservation Footprint coincident with the completion of all DOE mission-essential activities within and/or below the K-25 Preservation Footprint.

Stipulation 4 - Evaluate Retention of the K-25 Slab and Delineate Area Occupied by the Slab

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The K-25 slab was retained during demolition of the K-25 Building, and an investigation was initiated in 2014 to determine whether or not the slab could be retained for public access. The Professional Site Design Team (PSDT) conducted a walkdown of the K-25 slab on July 13, 2016, with representatives from OREM and URS | CH2M Oak Ridge LLC (UCOR) Historic Preservation Project and Environmental Stewardship Project to observe slab conditions and get a sense of the slab sections that might be possible to preserve. Slab chemical characterization and radiological surveys were subsequently completed to determine if portions of the slab can be safely and cost effectively left in place for public access.

Because the K-25 Building slab is part of the Manhattan Project National Historical Park, OREM, UCOR, and the PSDT conducted a walkdown of the K-25 slab with a NPS representative on March 29, 2017, to solicit a NPS perspective on the slab retention evaluation.

Recommendations from the slab retention evaluation were provided to the CP during a meeting held on July 27, 2017. Based on the evaluation, most of the slab can be safely and cost effectively retained and made accessible to the public. Slab and soil excavation work, however, is required for the southern portion of the east wing to remove Technetium-99 contamination. Additionally, other sections of slab scattered throughout the northern portion of the east wing, the north wing, and the west wing require excavation to remove chemical or radiological contaminants.

UCOR solicited input from the PSDT regarding the implementation of the design for the K-25 Preservation Footprint in light of the slab retention evaluation. Based on the recommendations of the PSDT, excavated areas are proposed to be backfilled with soil and vegetated with native grasses, consistent with the design approach, with the exception of relatively small excavations which will be backfilled with crusher run limestone.

The Evaluation for Retention of the K-25 slab portion of this Stipulation has been completed.

Stipulation 5 – PSDT Procurement

The PSDT and Museum Professional (MP) were integrated into a single procurement which was initiated on October 29, 2012. Smee+Busby Architects, P.C., the lead team member of the winning bid, was awarded this scope of work through a UCOR subcontract on April 1, 2014. The PSDT members included Smee+Busby Architects, McCarty Holsaple McCarty Architects and Interior Designers, and Hedstrom Landscape Architecture. The forth member of the bid team was Hilferty and Associates, the MP.

Prior to award and consistent with this Stipulation, input from the CP on necessary components for commemorating and interpreting the K-25 Site was collected and provided to the design team. Representatives from the PSDT/MP team also participated in a meeting with the CP on

May 15, 2014, to hear the participants' ideas. Additionally, the ETTP staff held a multi-day tutorial on gaseous diffusion with the PSDT/MP on July 7-9, 2014, which included a tour of the K-27 Process Building.

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Conceptual design documents, which outlined the design solution for the K-25 Preservation Footprint, were shared with the CP on January 22, 2015, for review and comment. OREM responses to the CP comments on the conceptual design were transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design. In like manner, preliminary and final design documents were developed and shared with the CP for review and comment, and comment responses were incorporated into the Certified for Construction design package. The Stipulation 5 requirements for obtaining the services of a PSDT and preparing a design solution for the K-25 Preservation Footprint have been completed.

Stipulation 6 – Design Review Process

Conceptual design documents were prepared and provided to the CP on January 22, 2015, for review and comment. Prior to review by the CP, the documents were reviewed for classification and Export Controlled Information (ECI) by the ETTP Classification and Information Control Organization (CICO) and the Oak Ridge National Laboratory (ORNL), respectively, and approved for public release in December 2014. In order to provide sufficient time for review, OREM extended the CP comment due date on the conceptual design from the required 10 days in the MOA to 30 days.

After receiving comments, OREM followed the design review process outlined in the MOA. All design review comments were compiled and, together with OREM responses, transmitted to the CP on April 13, 2015. The design team reviewed all comments and helped prepare the comment responses. Input from the CP was considered and incorporated into the preliminary design, which was then submitted for review to the CICO and ORNL in August 2015. Based on guidance received from the National Nuclear Security Administration (NNSA) in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design was extended to August 31, 2016. The OREM responses to the CP comments on the preliminary design were transmitted to the CP on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment. The review period for the final design was extended to February 21, 2017. OREM responses to the CP comments on the final design were transmitted to the CP on April 7, 2017. Consistent with the comment responses, the input from the CP was incorporated into the Certified for Construction design package, which has been included in Requests for Proposals (RFPs) for construction activities and exhibit fabrication and installation activities. Thus, the requirements for the design review process have been completed.

Stipulation 7 - Equipment Building Design and Construction

The design, starting with the conceptual design and carried forward to the preliminary and final designs, places the Equipment Building just south of the K-25 footprint which is centered between the east and west wings of the former building and adjacent to the Fire Station. The design is an open-air representation of a cross section of the K-25 Building and includes the Viewing Tower.

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As discussed at the May 15, 2014, meeting with the CP, an evaluation of the use of artifacts and authentic equipment concluded that approximately 90 percent of the artifacts collected and stored for historic preservation purposes could be decontaminated and released for use in either the Equipment Building or History Center. However, the evaluation concluded that authentic process gas equipment from the gaseous diffusion buildings could not be cleaned sufficiently. A subsequent review by the NNSA of artifacts collected and retained for historic preservation established that centrifuge hardware was also precluded from display. As a result, the conceptual design included the use of replicated gaseous diffusion and centrifuge equipment. This approach has been carried forward to the preliminary and final versions of the design.

Following classification and ECI reviews by the CICO and ORNL, respectively, the conceptual design was provided to the CP on January 22, 2015, for review and comment. All design review comments were compiled together with OREM responses and transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design which was then submitted in August 2015 for classification and ECI reviews by the CICO and ORNL, respectively. Based on guidance received from NNSA in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design concluded August 31, 2016, and the OREM responses to CP comments were transmitted on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment. The review period for the final design concluded on February 21, 2017, and the OREM responses to CP comments on the final design were transmitted on April 7, 2017. Consistent with the comment responses, the input from the CP was incorporated into the Certified for Construction design package which was included in a RFP for construction activities issued by UCOR on July 19, 2017, and in a separate RFP for exhibit fabrication and installation activities issued by UCOR on August 25, 2017.

The proposals received in response to the construction RFP did not meet the technical qualification criteria. At the same time, limited funding brought to a halt further procurement activities for obtaining Equipment Building construction services. The RFP for exhibit fabrication and installation was amended to move the Equipment Building exhibits to optional scope and extend the due date for proposals to November 21, 2017. UCOR issued a subcontract award for exhibit fabrication and installation on January 9, 2018.

In Fiscal Year 2019, an appropriation of \$10 million was received for K-25 historic preservation activities, enabling UCOR to issue an RFP for construction of the Equipment Building and Viewing Tower, and associated site improvements on January 17, 2019, with subcontract award expected June 2019. The optional scope for fabrication and installation of the Equipment Building and Viewing Tower exhibits will be exercised coincident with award of the construction subcontract.

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The Equipment Building design aspects of this Stipulation have been completed.

Stipulation 8 - Viewing Tower Design and Construction

The design, including the conceptual design and subsequent versions, calls for the Viewing Tower to be co-located with the Equipment Building. The Viewing Tower allows for a 360 degree view of the K-25 Building footprint and surrounding areas from an enclosed observation deck. Following classification and ECI reviews by the CICO and ORNL, respectively, the conceptual design was provided to the CP on January 22, 2015, for review and comment. All design review comments were compiled together with OREM responses and transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design and submitted in August 2015 for classification and ECI reviews by the CICO and ORNL, respectively. Based on guidance received from NNSA in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design concluded August 31, 2016, and the OREM responses to CP comments were transmitted on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment. The review period for the final design concluded on February 21, 2017, and the OREM responses to CP comments on the final design were transmitted on April 7, 2017. Consistent with the comment responses, the input from the CP was incorporated into the Certified for Construction design package which was included in a RFP for construction activities issued by UCOR on July 19, 2017, and in a separate RFP for exhibit fabrication and installation activities issued by UCOR on August 25, 2017.

The proposals received in response to the construction RFP did not meet the technical qualification criteria. At the same time, limited funding brought to a halt further procurement activities for obtaining Viewing Tower construction services. The RFP for exhibit fabrication and installation was amended to move the Viewing Tower exhibits to optional scope and extend the due date for proposals to November 21, 2017. UCOR issued a subcontract award for exhibit fabrication and installation to Formations, Inc. of Portland, Oregon, on January 9, 2018.

In Fiscal Year 2019, an appropriation of \$10 million was received for K-25 historic preservation activities, enabling UCOR to issue an RFP for construction of the Equipment Building and Viewing Tower, and associated site improvements on January 17, 2019, with subcontract award

expected June 2019. The optional scope for fabrication and installation of the Equipment Building and Viewing Tower exhibits will be exercised coincident with the award of the construction subcontract.

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The Viewing Tower design component of this stipulation has been completed.

Stipulation 9 – MP Procurement

The PSDT and MP were integrated into a single procurement, which was initiated on October 29, 2012. An architectural design and MP subcontract was awarded by UCOR on April 1, 2014, to a team of companies headed by Smee+Busby Architects, PC. The member of the bid team who fulfilled the requirements of MP was Hilferty and Associates. The other team members included McCarty Holsaple McCarty and Hedstrom Landscape Architecture.

Prior to award and consistent with this Stipulation, input from the CP on necessary components for commemorating and interpreting the K-25 Site were collected and provided to the design team. Representatives from the PSDT/MP team also participated in a meeting with the CP on May 15, 2014, to hear the participants' ideas. Additionally, the ETTP staff held a multi-day tutorial on gaseous diffusion with the PSDT/MP on July 7-9, 2014, which included a tour of the K-27 Process Building.

Conceptual, preliminary, and final design documents containing design information for the K-25 History Center, Equipment Building, and Viewing Tower exhibits and the content of the Wayside Exhibits and self-guided tour brochure have been prepared by the MP. Stipulation 9 requirements have been completed.

Stipulation 10 - Equipment and Artifact Inventory and Review

Previously collected equipment and other artifacts, some of which required radiological decontamination, continue to be maintained. An initial inventory of artifacts collected and stored for historic preservation purposes was included in the semiannual progress report transmitted in February 2015.

During a tour of the K-27 Process Building in July 2014, the PSDT/MP suggested the removal and retention of several additional items for historic preservation. The K-27 Project Team subsequently retrieved some of those items requested by the PSDT/MP. These artifacts were placed in storage with the previously collected artifacts from the K-25 Site and added to the inventory of items collected and stored for K-25 historic preservation.

Artifacts directly related to the gaseous diffusion process are subject to the Nuclear Nonproliferation Treaty and, under this agreement, are required to be disposed. In order to display these items publicly, a formal exemption for these items must be approved by NNSA. A letter requesting an exception to the presumption of destruction of several artifacts that met the

definition of high-risk property was transmitted to NNSA in August 2015. Based on guidance received from NNSA in February 2016, the artifact inventory was revised to include only those items that were approved for public display without modification.

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A revised inventory, reflecting the additional artifacts that were retrieved based on the PSDT/MP tour of the K-27 Process Building and the removal of artifacts based on the NNSA guidance, was enclosed with the semiannual status report transmitted in August 2016. The inventory identifies 652 artifacts collected and stored for historic preservation purposes.

Twelve historic artifacts were radiologically contaminated or potentially contaminated and, consequently, deemed unsuitable for public display. These items were removed from the historic artifact inventory and turned over to UCOR Waste Management for disposition as waste. The decision to disposition the items was made based on the fact that, in several cases, there were similar artifacts of better quality, it was impractical to attempt decontamination, or the items were not selected by the MP for display even if decontamination were possible.

In May 2018, consistent with Stipulation 10 of the MOA, OREM transferred two artifacts to the American Museum of Science and Energy (AMSE) for display at the new AMSE location.

On June 25-26, 2018, the exhibit fabrication subcontractor transported just under 300 artifacts from storage at ETTP and the Office of Scientific and Technical Information to a rented storage space in Oak Ridge where a Conservator is preparing the artifacts for display in the K-25 History Center.

Stipulation 11 – Discussions with the City of Oak Ridge (City) Regarding the K-25 History Center to be Located on the Second Floor of the ETTP Fire Station

On August 14, 2012, a meeting was held between the City and OREM to discuss issues pertaining to the newly-executed MOA, including the eventual use of the second floor of the ETTP Fire Station to house the K-25 History Center. Subsequently, a license was negotiated between the City and UCOR in which UCOR was granted permission to access the second floor of the Fire Station during the design phase of the K-25 History Center. The license was modified on October 4, 2017, to allow construction activities. Planning is underway for a lease agreement with the City to support K-25 History Center operations, including public access, after construction is completed.

The K-25 History Center will house artifacts and other exhibits and will also include a theater. Following classification and ECI reviews by the CICO and ORNL, respectively, the conceptual design was provided to the CP on January 22, 2015, for review and comment. All design review comments were compiled together with OREM responses and transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design and submitted in August 2015 for classification and ECI reviews by the CICO and ORNL, respectively. Based on guidance received from NNSA in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design concluded August 31, 2016, and the OREM responses to CP comments were transmitted on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment. The review period for the final design concluded on February 21, 2017, and the OREM responses to CP comments on the final design were transmitted on April 7, 2017. Consistent with the comment responses, the input from the CP was incorporated into the Certified for Construction design package which was included in a RFP for construction activities issued by UCOR on July 19, 2017, and in a separate RFP for exhibit fabrication and installation activities issued by UCOR on August 25, 2017.

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The proposals received in response to the construction RFP did not meet the technical qualification criteria. In order to increase the potential pool of qualified bidders and to address current funding limitations, the construction RFP was restructured into two smaller RFPs – one for construction of the K-25 History Center (which was issued on November 2, 2017) and a second for site improvements in support of the K-25 History Center (which was issued on November 16, 2017). Proposals were received on December 18, 2017, for both RFPs. A subcontract award for K-25 History Center construction and a separate subcontract award for K-25 History Center site improvements were made on January 25, 2018.

The RFP for exhibit fabrication and installation was amended to move the Equipment Building/Viewing Tower exhibits to optional scope and extend the due date for proposals to November 21, 2017. UCOR issued a subcontract award for exhibit fabrication and installation on January 9, 2018.

Unforeseen circumstances necessitated a change in construction subcontractors and a new K-25 History Center construction subcontract was awarded on July 2, 2018. A new subcontract for K-25 History Center site improvements was awarded on September 18, 2018. Despite a brief interruption in work activities, no change in schedule is anticipated, and UCOR expects to move forward with all of the work scope necessary to complete the K-25 History Center in 2019. The current schedule calls for the opening of the K-25 History Center to the public in the Fall of 2019.

Stipulation 12 - K-25 Virtual Museum Development and Maintenance

The K-25 Virtual Museum procurement was awarded on September 2, 2014, to Westside Media, LLC through a UCOR subcontract. Westside Media, LLC specializes in website design, graphic design, video production, and branding/logo design.

The K-25 Virtual Museum outline was sent to the CP for review and comment on December 17, 2014. A draft K-25 Virtual Museum was previewed by the CP at a consultation meeting on May 19, 2015, and a link to the website was provided to the CP for their review and comment by June 5, 2015. Comment responses were transmitted to the CP on June 23, 2015, and CP comments were subsequently incorporated into the website.

Work on the K-25 Virtual Museum website was put on hold in early September 2015 pending clarification of ECI guidance and review of the website by NNSA. In the absence of updated ECI guidance from NNSA, OREM removed the very limited website content that was of concern so that the website could be approved for public release and launched on November 10, 2015, in conjunction with the signing of the MOA between DOE and the U.S. Department of Interior, formally establishing the Manhattan Project National Historical Park. The website is being maintained by Westside Media, LLC through the UCOR subcontract.

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Stipulation 12 included a requirement that the K-25 Virtual Museum have a Digital Memory Box where users would be able to make their own contributions to the oral history archive. It was not possible to include this component in the K-25 Virtual Museum due to an inability to review content placed on the website prior to public release. To meet the intent of this requirement, a Digital Memory Zone, where oral histories can be recorded and vetted in an off-line fashion, is being provided at the K-25 History Center.

With the launch of the website and ongoing maintenance, the requirements of Stipulation 12 have been completed.

OREM is exploring avenues for making periodic updates to the K-25 Virtual Museum website, including the incorporation of additional approved website content.

Stipulation 13 - Wayside Exhibits Design, Installation, and Maintenance

The design, starting with the conceptual design and carried forward to the preliminary and final designs, recommends the format and placement of 12 Wayside Exhibits to be placed throughout the K-25 footprint to include information on the building, people, and the site. While the conceptual design incorporated bricks from the S-50 Boiler House Chimneys in a display case in the enclosed observation deck of the Viewing Tower, the preliminary and final design place the brick exhibit in a display case in the History Center where a few bricks will be displayed (stacked and loose) and interpreted.

Following classification and ECI reviews by the CICO and ORNL, respectively, the conceptual design was provided to the CP on January 22, 2015, for review and comment. All design review comments were compiled together with OREM responses and transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design which was then submitted in August 2015 for classification and ECI reviews by the CICO and ORNL, respectively. Based on guidance received from NNSA in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design concluded August 31, 2016, and the OREM responses to CP comments were transmitted on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment.

The review period for the final design concluded on February 21, 2017, and the OREM responses to CP comments were transmitted on April 7, 2017. Consistent with the comment responses, the input from the CP was incorporated into the Certified for Construction design package, which was included in a RFP for exhibit fabrication and installation activities issued by UCOR on August 25, 2017.

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A subcontract for exhibit fabrication and installation was awarded on January 29, 2018. The Wayside Exhibits are identified as optional scope in the subcontract. In December 2018, OREM transmitted a proposed MOA Amendment to the Signatory and Invited Signatory Parties that gives NPS ultimate approval on the Wayside Exhibits' interpretative content related to the Manhattan National Historical Park and stipulates the installation of at least three Wayside Exhibits no later than the opening of the Equipment Building and Viewing Tower, with the remaining Wayside Exhibits to be installed no later than the dedication of the K-25 Preservation Footprint.

Stipulation 14 – Self-guided Tour Brochure

The PSDT/MP have recommended the design of the tour brochure that provides a brief description of the history and importance of the K-25 Site and recommends driving, biking, and walking tours at ETTP and elsewhere in the City. The final version of the tour brochure will be prepared in consultation with the CP.

Following classification and ECI reviews by the CICO and ORNL, respectively, the conceptual design was provided to the CP on January 22, 2015, for review and comment. All design review comments were compiled together with OREM responses and transmitted to the CP on April 13, 2015. Consistent with the comment responses, the input from the CP was incorporated into the preliminary design which was then submitted in August 2015 for classification and ECI reviews by the CICO and ORNL, respectively. Based on guidance received from NNSA in February 2016, the preliminary design was revised and transmitted to the CP on July 11, 2016, for review and comment.

The review period for the preliminary design concluded on August 31, 2016, and the OREM responses to CP comments were transmitted on October 14, 2016. Consistent with the comment responses, the input from the CP was incorporated into the final design. After review by the CICO and ORNL, the final design was transmitted to the CP on January 6, 2017, for review and comment. The review period for the final design concluded on February 21, 2017, and the OREM responses to CP comments were transmitted on April 7, 2017. Consistent with the comment responses, the input from the CP will be incorporated into the final version of the tour brochure.

Stipulation 15 – Grant for the Purchase and Stabilization of the Alexander Inn

A grant of \$500,000 toward the purchase and stabilization of the Alexander Inn was provided by OREM and awarded to Knox Heritage, Inc., an agent of the East Tennessee Preservation

Alliance, in August 2012. In May 2013, Family Pride Corporation, later to become known as Dover Development Corporation, purchased the facility and adapted it for use as an assisted living facility. The OREM role in this activity is complete, and the grant has been closed out.

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(OREM, East Tennessee Preservation Alliance, and Dover Development Corporation received the prestigious Chairman's Award for Achievement in Historic Preservation at a ceremony held on July 13, 2016, in the Washington, DC National Building Museum. The award is given by the Advisory Council on Historic Preservation.)

<u>Stipulation 16</u> – East Tennessee Preservation Alliance Adherence to Secretary of the Interior Standards for Rehabilitation of Historic Buildings

The East Tennessee Preservation Alliance and Family Pride Corporation submitted Parts I and II of the required paperwork for Rehabilitation Tax Credits, which were reviewed by the Tennessee Historical Commission and NPS. Revisions to the original proposal were required in late 2013 and have been reviewed and approved by NPS. This review ensures the rehabilitation plans meet the Secretary of the Interior Standards for Rehabilitation. As agreed upon in the MOA, the purchase agreement between the East Tennessee Preservation Alliance and Family Pride Corporation included the required preservation easement. The requirements for this stipulation have been completed.

<u>Stipulation 17</u> – Work with NPS to Prepare Level 1 Historic American Engineering Record (HAER) Documentation

An initial set of drawings and narratives were provided to the NPS Project Manager on August 8, 2012, to support research on the K-25 Building. In September 2012, NPS provided a list of photographs needed for the K-25 North Tower. In coordination with NPS, DOE photographers captured the final condition of the K-25 North Tower. Copies of the photographs were provided to NPS in electronic format in September 2012.

Photographs of Portal 4 and the K-1037 Building were taken in October 2015 and December 2015, respectively.

The Portal 4 HAER Documentation was approved by NPS on June 30, 2016.

The K-1037 HAER Documentation was approved by NPS on May 2, 2017.

The draft HAER Documentation for the K-25 Building is being prepared for transmittal to NPS.

Stipulation 18 – Reference List of Available Documents

Both contractor and DOE records were researched, coordinated, and compiled to complete the unclassified document listing for this Stipulation. In addition, the inventory of classified

documents has also been conducted, and a reference listing has been developed. Electronic copies of these documents are being prepared where it is feasible. Both the unclassified and classified document listings were transmitted with the August 2013 Semiannual Status Report. OREM will continue to maintain these documents and update them in the event new items are identified that should be added. These listings were provided to the HAER representative as agreed upon in the MOA. The requirements of this stipulation have been completed.

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Stipulation 19 – Monitoring Progress

A semiannual status report is submitted twice per year to the CP to report on the status of the Stipulations. Copies of the semiannual report are placed in the DOE Information Center Public Reading Room in Oak Ridge, Tennessee, and made available to the public.

Stipulation 20 – Consultation with Experts

OREM requests support from the Oak Ridge Heritage and Preservation Association, the City, and the City Historian as tasks arise that would benefit from the perspectives of these Subject Matter Experts. The former City Historian, prior to his death, provided documentation to the K-25 Historic Preservation Coordinator to assist in the design and vision for Historic Preservation activities at ETTP. Those materials were provided to the PSDT for their information and use. The MOA is written to solicit input at agreed-upon intervals. Those processes will continue to be followed.

Stipulation 21 – Funding

In Fiscal Year 2019, an appropriation of \$10 million was received for K-25 historic preservation activities. Appropriations through Fiscal Year 2019 have supported completion of all design work, are supporting ongoing construction activities, site improvements, and exhibit fabrication and installation for the K-25 History Center, and are expected to support the construction activities, site improvements, and exhibit fabrication and installation for the Equipment Building and Viewing Tower. This work is being conducted under a non-defense appropriation.

Additional funding is required to complete the installation of the Wayside Exhibits and the delineation of the K-25 Building footprint.

Stipulations 22 and 23 – Anti-Deficiency Act and Periodic Inspection

These stipulations are primarily administrative and will not be reported upon unless an issue exists.

Stipulations 24 – Amendments

In December 2018, OREM transmitted a proposed MOA amendment to the Signatories and Invited Signatories that would, among other things: recognize the completed stipulations under the MOA; provide additional time (up to an additional five years from the execution of the Amendment) to complete the remaining stipulations in the MOA; reflect the establishment of the Manhattan Project National Historical Park; and offer NPS the opportunity to sign the Amendment as an Invited Signatory.

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Stipulations 25 and 26 - Dispute Resolution and Termination of the MOA

These stipulations are primarily administrative and will not be reported upon unless an issue exists or is anticipated.

Stipulation 27 – Termination by Date

Due to delays with the ECI review process, additional time afforded for CP reviews, and funding uncertainties throughout as reported above and in previous semiannual reports, the schedule for completing several of the stipulations set forth in the MOA has exceeded the five-year duration identified in Stipulation 27. In December 2018, OREM transmitted a proposed MOA amendment to the Signatories and Invited Signatories that reflects an updated schedule for completing the MOA stipulations.