

SECTION J – LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

Section J, Attachment 15, Work Authorizations



**Reverse Work Authorization Form
(For Services provided to American Centrifuge Operating LLC [ACO])**

WA Title: Telecommunications Support		Date Prepared: May 29, 2019	
ACO Contact: Chris Harper (Technical) Dale Bauer (Contracts)		Work Authorization No.: 902077	
ACO Phone No.: 740-796-8427 (Technical) 740-796-8429(Contracts)		Requester: ACO	
DOE Contact: Matt Vick		Work Order No.: n/a	
Phone No.: 740-897-2089		MODIFICATION	
Start Date: June 1, 2019		Modification No.: 0	Date of Modification :
End Date: August 31, 2019		Funding (+/-): +	
Estimated Cost: \$2,218 per month		WFO: 0495731	
Funding Obligation: \$6,654			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
DOE shall provide the services at the Portsmouth, Ohio site as set forth in the attached "Statement of Work For Telecommunications Support" for the High-Assay Low-Enriched Uranium (HALEU) Demonstration Project.			
<p>Work will be performed under the September 2006 "Agreement for Services between the United States Department of Energy and the United States Enrichment Corporation" (the "Services Agreement") and under the December 2006 "Memorandum of Agreement between United States Department of Energy and United States Enrichment Corporation for the Supply of Services, Modification No. 1" (the "Services MOA"), as set forth in Exhibit F to the Lease Agreement dated July 1, 1993 (the "GDP Lease"),</p> <p>Pursuant to Appendix 1 to the GDP Lease, entered into by the DOE and United States Enrichment Corporation in 2006 (the "GCEP Lease"), and the Amended and Restated Sublease entered into between ACO and United States Enrichment Corporation in 2006, which was assigned to ACO (a wholly owned indirect subsidiary of Centrus.) on February 8, 2013, ACO may procure services from the DOE for the HALEU under the aforementioned Services Agreement and Services MOA. All services provided by DOE or its contractor (or applicable subcontractors) shall be subject to, and comply with, the applicable appendices of the Services Agreement and Services MOA.</p> <p>This is a Cost Reimbursement type Work Authorization (WA). Payments will be based on full cost recovery, consistent with DOE Order DOE O 522.1A, Pricing of Departmental Materials and Services. DOE reserves the right to revisit the cost estimate provided to Centrus on which the Estimated Cost section of the WA is based to accommodate full cost recovery. The Estimated Cost and Federal Administrative Charge (if applicable) is \$2,218 per month.</p> <p>In accordance with Article V – "Billings and Payment" of the Services MOA, ACO has provided prepaid funding to DOE in the amount of \$3,327 (which is to be transferred from previous Reverse Work Authorization 813648 with the balance of \$40,473 to be returned to ACO). This is the existing estimate of cost to be incurred in 45 calendar days to cover services to be provided under this WA prior to the services being provided. During the performance period of this WA, prior to the end of each calendar month ACO shall pay DOE (payments to be sent to the address below) the estimated monthly amount set forth in the Estimated Cost section of this WA (\$2,218 per month) for the services provided.</p>			

During the performance period of this WA, prior to the end of each calendar month DOE shall provide ACO the actual costs incurred during the previous month. DOE shall also provide the estimated cost of services performed but not yet billed (the "remaining amount") and the Estimated Cost of the services to be performed during the current month (\$2,218). The monthly Estimated Costs are based on the average cost of services over the period of October 2018 to March 2019. The type and extent of services provided to ACO are not expected to differ significantly from services provided during the aforementioned six (6) month period as compared to the initial 18 months of the deployment of the HALEU Demonstration Project. DOE and ACO shall compare the monthly invoice of actual costs, remaining amount to be billed, and the current monthly Estimated Cost as a total Cost-To-Date for services to the Total Payments Remitted periodically, to ensure advance funding is available to pay for services. The total cost for services will be tracked and trued up with the amount paid by ACO periodically. Furthermore, DOE may need to revise the Estimated Cost to ensure adequate advance funding, or otherwise seek a monthly adjustment. DOE and Centrus will also revise the monthly Estimated Cost upon change in services and prior to the second 18 month period of the demonstration project.

DOE Payment Address:

US Bank
 Attn: Government Lockbox
 Mail code #SL-MOC2GL
 1005 Convention Plaza
 St. Louis, MO 63101

The monthly statements of actual costs shall be submitted via e-mail to Centrus Energy Corporation Accounts Payable at Acctspay@centrusenergy.com and to Burkittvl@centrusenergy.com. The monthly statement of actual costs shall include:

- i. Statement date;
- ii. Work Authorization number;
- iii. Information as set forth in the Deliverable section of the Statement of Work; and
- iv. Description, quantity, unit of measure, unit price and extended price of services performed.

The DOE prime contractor providing the services under this WA will invoice DOE based on actual costs incurred in accordance with its approved accounting practices and per the Allowable Cost and Payment clause (FAR 52.216-7) included in its prime contract with DOE. Costs charged to ACO by DOE shall be those charged to DOE under the DOE Contractor's prime contract for the service provided under this WA plus any applicable additional DOE costs associated with performing the services and the 3% Federal Administrative Charge, if applicable.

ACO Approval:		U.S. DEPARTMENT OF ENERGY APPROVAL:	
		Work Authorization Technical Representative:	
		Signature: <i>[Handwritten Signature]</i>	Date: <i>5/31/19</i>
		Contracting Officer:	
		Signature:	Date:
		DOE NE ORSO Management Approval	
		Signature:	Date:
		DOE PPPO Management Approval:	
Digitally signed by Dale Bauer Date: 2019.05.30 15:48:41 -04'00'		Signature: Bauer	Date:
Title:	Manager, Government Contracts	Title:	PPPO Manager

Statement of Work for Telecommunications Support

1.0 PURPOSE

The purpose of this statement of work (SOW) is for the U. S. Department of Energy (DOE) to provide to the American Centrifuge Operating LLC (ACO) High Assay Low-Enriched Uranium (HALEU) Demonstration Project Telecommunications Support. This support will be provided through DOE's prime contractor and applicable subcontractors.

2.0 SCOPE OF WORK

- 2.1 DOE through its contractor performing the services shall provide for the full provisioning, engineering, operations, maintenance, and administration of current and emerging voice and data telecommunications services, but not limited to the following services:
- 2.1.1 Provide local and long distance voice network services to all current and future ACO subleased facilities.
 - 2.1.2 Provision end user access to Site Emergency 911 services.
 - 2.1.3 Provide pagers and pager administration services and support as requested.
 - 2.1.4 Install new telephone service to offices and other areas of the ACO subleased facilities, as requested. This shall include the installation and termination of cabling to/from telecommunications closets and the end user if required.
 - 2.1.5 Manage and maintain the equipment and circuits for all ACO subleased facilities, including the administrative telephone switch in building X-3000, and the process telephone switch in X-3001.
 - 2.1.6 Meet ACO business needs for highly available, scalable, reliable, and secure voice and data telecommunications services.
 - 2.1.7 Provide voice and data telecommunications services design and engineering to meet ACO strategies and requirements.
 - 2.1.8 Install, operate, and manage voice services for all ACO personnel and associated ACO contractor personnel.
 - 2.1.9 Install, manage, and route fiber and copper cabling used in support of data communication between ACO subleased facilities.
 - 2.1.10 Coordinate with external voice and data telecommunications services providers.
 - 2.1.11 Coordinate with ACO telecommunications personnel any work which will affect the design or operation of the ACO telecommunications infrastructure.
 - 2.1.12 Coordinate service requests and delivery with the ACO IT Help Desk.
 - 2.1.13 Provide local and long distance usage monitoring and reporting.
 - 2.1.14 Provide voice messaging services, including storage capacity management, administration, end user tools for managing voice mailboxes, and end-user training materials.

- 2.1.15 Coordinate, reconcile and provide detailed billing.
- 2.1.16 Continuously monitor and update inventory to reflect moves, addition, and changes. Disconnect unused voice and data lines subject to ACO Site Technical Representative (STR) approval. Ensure that costs to ACO associated with line counts reflect active lines in use.
- 2.1.17 Provide any Move/Add/Change (MAC) services such as the installation, relocation, and/or disposal of the telecommunications components as requested by the ACO STR. This includes MACs that may result from building modifications and remodeling. This would also include any software and/or hardware changes necessary to add or remove requested capabilities and features. Provisions must be made to support emergency MAC situations that occur from time to time.
- 2.1.18 Provide notice to all affected users of any planned or unplanned local, long distance, voice mail or enhanced telephony service interruptions, including day, time of day, and estimated duration of outage.

3.0 REFERENCES

None

4.0 TRAINING & QUALIFICATIONS

- For work activities performed in ACO subleased space:
 - DOE through its contractor performing the services shall ensure that assigned personnel are appropriately trained and qualified to perform their assigned duties prior to assigning work activities under this SOW.
 - The ACO STR shall establish training requirements for DOE contractor personnel performing work activities in ACO subleased space. The ACO STR will transmit the established requirements to the DOE contractor performing the services.
 - DOE through its contractor performing the services shall work with the ACO Training Manager to obtain approval for DOE contractor performing the services training modules which are considered equivalent to ACO required training. Once a DOE contractor training module is approved for equivalency, any changes to the module must be reviewed by the ACO Training Manager prior to implementation of the change.
 - DOE through its contractor performing the services will maintain a tracking system for DOE contractor employees training requirements including training frequency and due dates.
 - DOE through its contractor performing the services will routinely monitor training due dates and verify that training requirements are current or work limitations are issued according to ACO Training Program Procedure, ACD2-TP-002, Section 4.5 using the Requirements Limitation Matrix (TRLM) TPP-2603-0003.
 - DOE through its contractor performing the services will notify the ACO STR in writing when a DOE Contractor employee designated to support ACO under this SOW is within 10 working days of becoming past due on any ACO training requirement.
 - The ACO STR will notify the DOE Contractor performing the services in writing of any changes in training requirements for personnel performing work under this SOW.
 - DOE through its contractor performing the services must provide timely notification to the ACO Training Manager of completed General Employee Training (GET) training dates for all DOE contractor personnel requiring access thru the automated access control system. Failure to provide General Employee Training (GET) dates to the Training Manager prior to expiration will result in termination of automated access to ACO subleased space.

5.0 CONTRACTOR EQUIPMENT REQUIREMENTS

- DOE through its contractor performing the services must provide all equipment and materials required to perform the work under this SOW, unless mutually agreed upon between the DOE Point of Contact and the ACO Contracts Point of Contact.

6.0 ACO SUPPLIED REQUIREMENTS

- ACO shall install building interior conduit and cable trays, when required, for routing telecommunications cables.

7.0 QUALITY REQUIREMENTS

- ACO shall monitor and control the progress of work by observing work activities, review of records and reports, emails, or documented phone calls.
- DOE through its contractor performing the services shall perform work in accordance with their approved QA/QC Program and implementing procedures.

8.0 DELIVERABLES

- DOE through its contractor performing the services shall supply telecommunications equipment, telephones, pagers, communications cabling, support, and services as specified in the SOW Scope.
- DOE through its contractor performing the services shall generate and supply monthly telephone usage reports for all local and long distance calls generated from ACO telephones.
- DOE through its contractor performing the services shall generate and supply monthly pager usage reports for all pagers supplied to ACO employees.
- DOE shall provide ACO adequate supporting documentation to validate all invoiced costs on a monthly basis to include:
 - Details of all services performed as charged to this Work Authorization. Provide a list that specifies:
 - (1) The ACO point of contract (the requestor's name) for the service(s) performed;
 - (2) Services performed;
 - (3) Date the services were performed; and
 - (4) Name(s) and number of hours of DOE prime contractor personnel associated with performing services.

9.0 POINT(S) OF CONTACT

- | <u>POSITION</u> | <u>NAME</u> | <u>LOCATION</u> | <u>PHONE</u> |
|----------------------------|--------------|-----------------|--------------|
| Site Technical Rep
8427 | Chris Harper | Waverly | 740-796- |

10.0 SCHEDULE REQUIREMENTS

- Requested services must be provided by the ACO established need date specified at the time of the request, unless an alternate date is mutually agreed upon by the DOE Point of Contact and the ACO STR.

11.0 SECURITY REQUIREMENTS

- DOE through its contractor performing the services must provide the ACO STR a list of personnel required to access ACO subleased areas in order to perform this SOW.
- Personnel required to enter ACO subleased areas to perform services must have the appropriate security clearance extended to ACO.
- DOE through its contractor performing the services must follow ACO security requirements when performing work in ACO subleased areas.

12.0 SPECIAL PROVISIONS

- Services under this Statement of Work will be provided in accordance with applicable DOE Contractor policies and procedures. DOE Contractor policies and procedures must comply with ACO requirements.
- The ACO STR must provide prior approval for any work activity requiring access or traversing ACO subleased space, which was not requested ACO.
- Work activities in ACO subleased space must meet ACO fire safety requirements.
- Combustibles in ACO subleased space must be minimized and work area must be cleaned at completion of activity.
- No changes are to be made to requirements in this SOW with regards to any programs, processes, or procedures without review and concurrence by the DOE Contact and the ACO Contracts Contact identified herein. The ACO STR will identify ACO programs, processes, or procedures applicable to this SOW.

13.0 ACCEPTANCE OF SERVICES

- The ACO STR shall verify and document that all deliverables and services requested have been received and that all requirements have been satisfied. Any nonconformance shall be just cause for rejection of the service provided and for delayed payment until DOE through its contractor performing the services complies with the SOW.
- The services provided under this SOW shall be inspected by ACO personnel and all services shall be approved by the ACO STR.



Work Authorization Form
UNITED STATES DEPARTMENT OF ENERGY (DOE)
(For Services provided to American Centrifuge Operating LLC [ACO])

Project Title: Infrastructure Support Services (ISS) Security & HSPD-12 Security Badging		Date Prepared: February 26, 2020	
ACO Contact: Angela Wright (Technical) David Adams (Contracts)		Work Authorization No.: 902084	
ACO Phone No.: 740-897-2749 (Technical) 740-897-4711 (Contracts)		Requestor: ACO	
DOE Contact: Robert Henry/Mark Allen, Technical SMEs Matt Vick WA Technical Representative/Contracts		Work Order No.:	
Phone No.: 740-897-3815 (R. Henry) 740-441-6842 (M. Allen) 740-897-2089 (M. Vick)		MODIFICATION	
Start Date: June 1, 2019	Modification No.: 5	Modification Date: 02/26/2020	
End Date: December 31, 2020	Funding (+/-):+\$2,710		
Estimated Cost: \$271 per month	WFO No.:4900248 (DOE-EMCBC)/ 0520662 (DOE- Science)		
Funding Obligation: \$5,149			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
Modification 5 extends the End Date to December 31, 2020, increases the funding Obligation by \$2,710 from \$2,439 to \$5,149. This also changes the statement of work to remove cyber security support, adds Special Provisions and provides miscellaneous clean up and modifications.			
ACO Approval:	U.S. DEPARTMENT OF ENERGY APPROVAL:		
	DOE PPPO PORTS Federal Security Specialist		
		Date: 2/27/2020	
	Work Authorization Technical Representative:		
	Signature: <i>[Signature]</i>	Date: 2/26/20	
	Contracting Officer: Jamie A. Ford		
	Signature: <i>[Signature]</i>	Date: 2-28-20	
	DOE NE ORSO Management Approval: <i>[Signature]</i> 2-28-20		
	DOE PPPO Management Approval:		
Signature: <i>[Signature]</i>	Date: 2/26/20	Signature: <i>[Signature]</i>	Date: 02/27/2020
Title: Contract Buyer		Title: PPPO Manager	

MA 2/26/20

Statement of Work
Infrastructure Site Services (ISS) Security Support & HSPD-12 Security Badging

1.0 Purpose

The purpose of this Statement of Work is for DOE, through its contractor performing the services, to provide the following:

- 1.1 Homeland Security Presidential Directive 12 (HSPD-12) badging services to American Centrifuge Operating, LLC (ACO) and their contractors in accordance with DOE O 206.2, Identity, Credential, and Access Management.
- 1.2 Lock and key support in accordance with DOE O 473.3A Chg. 1, *Protection Program Operations*, as requested.

All work shall be performed in accordance with all applicable permits, laws, and regulations of the State of Ohio, the Federal Government, DOE Orders, and all other Codes, Standards, and Procedures as applicable.

2.0 HSPD-12 Badging

- 2.1 DOE through its contractor performing the services will provide all enrollments, activations, updates and destructions of the HSPD-12 badges as requested. However, all DOE HSPD-12 credentials will be migrating toward a new badge design that may not be compatible with current ACO automated access control systems.
- 2.2 DOE through its contractor performing the services will provide the labor, materials, and equipment to provide HSPD-12 security badging for ACO personnel and their contractors' as requested by the ACO Site Technical Representative (STR). The number of personnel (ACO and subcontractors) to be enrolled in the HSPD-12 Credentialing Center is estimated not to exceed 100 individuals for calendar year 2020. These personnel and services will be identified to DOE's contractor performing the services on an as needed basis.
- 2.3 Following enrollment, personnel will be scheduled for an appointment at the HSPD-12 Credentialing Center for activation of the credentials.
- 2.4 ACO management will be responsible for ensuring the personnel to be issued HSPD-12 badges expeditiously schedule enrollment and activation appointments on-line through the General Services Administration (GSA) Scheduler system.

3.0 Lock and Key Support

- 3.1 DOE through its contractor performing the services will provide limited lock and key services to the ACO, as requested. This support will be provided in accordance to applicable portions of DOE O 473.3A Chg.1. Services will be provided in a timely manner. DOE through its contractor shall furnish all equipment and material necessary for the normal execution of this task. Any specialty equipment or material shall be either purchased through ACO, or by the DOE contractor providing the service. This determination will be made by ACO, in consultation with the DOE PPPO PORTS Federal Security Specialist at the time the task is planned and/or identified.
- 3.2 Lock and Key service is a cost reimbursable, direct charge activity.

5.0 POINT(S) OF CONTACT

The ACO STR is Angela Wright, 740-897-2749

7.0 Reporting

DOE will report following the end of each Government Fiscal Year the actual cost of performance under this SOW.

8.0 Cost Estimate and Assumptions

8.1 Badging of ACO and their contractor personnel for the near term is estimated not to exceed 100 personnel for an estimated cost of \$45.00 for labor and materials per badge. The estimate assumes no new staffing, overtime, equipment or facility upgrades are needed to support the task. Estimate also assumes personnel are scheduled as the badging office can accept personnel.

8.2 The estimate for lock and key support will be prepared as needed.

9.0 Special Provisions

9.1 Services under this SOW will be provided in accordance with applicable PPPO Contractor policies and procedures unless otherwise specified herein.

9.2 No changes are to be made to requirements in the SOW with regards to any programs, processes, or procedures without the review and concurrence of PPPO Federal Security personnel and the ACO Contracts contact identified herein.



**Reverse Work Authorization Form
(For Services provided to American Centrifuge Operating LLC [ACO])**

WA Title: Telecommunications Support		Date Prepared: April 30, 2020	
ACO Contact: Tim Long (Technical) David Adams (Contracts)		Work Authorization No.: 902077	
ACO Phone No.: 865-241-7181 (Technical) 740-897-4711(Contracts)		Requester: ACO	
DOE Contact: Matt Vick		Work Order No.: n/a	
Phone No.: 740-897-2089		MODIFICATION	
Start Date: June 1, 2019		Modification No.: 3	Modification Date: 4/30/20
End Date: December 31, 2020		Funding (+/-): + \$0	
Estimated Cost: \$2,218 per month		SPP: 0520662 & 4900248	
Funding Obligation: \$42,142			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
<p>Modification 3 changes the Technical Contact to Tim Long and Contracts Contact to David Adams. All other terms and conditions remain the same.</p>			
ACO Approval:		U.S. DEPARTMENT OF ENERGY APPROVAL:	
		Work Authorization Technical Representative:	
		Signature: Matthew A. Vick <small>Digitally signed by Matthew A. Vick Date: 2020.05.05 10:45:59 -0400</small>	Date:
		Contracting Officer:	
		Signature:	Date:
		DOE NE ORSO Management Approval	
		Signature:	Date:
		DOE PPPO Management Approval:	
Signature: David B. Adams <small>Digitally signed by David B. Adams Date: 2020.04.30 14:38:08 -0400</small>	Date: 4/30/20	Signature: <i>Matthew A. Vick</i>	Date: 5-5-2020
Title: Contract Buyer		Title: PPPO Manager	



**Reverse Work Authorization Form
(For Services provided to American Centrifuge Operating LLC [ACO])**

WA Title: Fire Services/Emergency Management/PSS Support for HALEU		Date Prepared: April 24, 2020	
ACO Contact: Mark Andronis(Technical) David Adams (Contracts)		Work Authorization No.: 902093	
ACO Phone No.: 740-897-2616 (Technical) 740-897-4711 (Contracts)		Requester: ACO	
DOE Contact: Matt Vick		Work Order No.: n/a	
Phone No.: 740-897-2089		MODIFICATION	
Start Date: June 1, 2019		Modification No.: 9	Date of Modification : 4/24/2020
End Date: May 31, 2020		Funding (+/-): + \$167,743	
Estimated Cost: \$167,743 per month		SPP No: 0520661 & 4900247 (FBP); 0520662 & 4900248 (PMA)	
Funding Obligation: \$2,012,916			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
Modification 9 extends the End Date to May 31, 2020, and increases the Funding Obligation by \$167,743 from \$1,845,173 to \$2,012,916. All other terms and conditions remain the same.			
ACO Approval:		U.S. DEPARTMENT OF ENERGY APPROVAL:	
		Work Authorization Technical Representative:	
		Signature: Matthew A. Vick	Date: <small>Digitally signed by Matthew A. Vick Date: 2020.04.27 14:14:24 -0400</small>
		Contracting Officer:	
		Signature:	Date:
		DOE NE ORSO Management Approval	
		Signature:	Date:
		DOE PPPO Management Approval:	
Signature: David B. Adams	Date: 4/24/20	Signature: <i>Robert E. Edwards</i>	Date: 4-27-2020
Title: Contract Buyer		Title: PPPO Manager	



**Reverse Work Authorization Form
(For Services provided to American Centrifuge Operating LLC [ACO])**

WA Title: Telecommunications Support		Date Prepared: May 29, 2019	
ACO Contact: Chris Harper (Technical) Dale Bauer (Contracts)		Work Authorization No.: 902077	
ACO Phone No.: 740-796-8427 (Technical) 740-796-8429(Contracts)		Requester: ACO	
DOE Contact: Matt Vick		Work Order No.: n/a	
Phone No.: 740-897-2089		MODIFICATION	
Start Date: June 1, 2019		Modification No.: 0	Date of Modification :
End Date: August 31, 2019		Funding (+/-): +	
Estimated Cost: \$2,218 per month		WFO: 0495731	
Funding Obligation: \$6,654			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
DOE shall provide the services at the Portsmouth, Ohio site as set forth in the attached "Statement of Work For Telecommunications Support" for the High-Assay Low-Enriched Uranium (HALEU) Demonstration Project.			
<p>Work will be performed under the September 2006 "Agreement for Services between the United States Department of Energy and the United States Enrichment Corporation" (the "Services Agreement") and under the December 2006 "Memorandum of Agreement between United States Department of Energy and United States Enrichment Corporation for the Supply of Services, Modification No. 1" (the "Services MOA"), as set forth in Exhibit F to the Lease Agreement dated July 1, 1993 (the "GDP Lease"),</p> <p>Pursuant to Appendix 1 to the GDP Lease, entered into by the DOE and United States Enrichment Corporation in 2006 (the "GCEP Lease"), and the Amended and Restated Sublease entered into between ACO and United States Enrichment Corporation in 2006, which was assigned to ACO (a wholly owned indirect subsidiary of Centrus.) on February 8, 2013, ACO may procure services from the DOE for the HALEU under the aforementioned Services Agreement and Services MOA. All services provided by DOE or its contractor (or applicable subcontractors) shall be subject to, and comply with, the applicable appendices of the Services Agreement and Services MOA.</p> <p>This is a Cost Reimbursement type Work Authorization (WA). Payments will be based on full cost recovery, consistent with DOE Order DOE O 522.1A, Pricing of Departmental Materials and Services. DOE reserves the right to revisit the cost estimate provided to Centrus on which the Estimated Cost section of the WA is based to accommodate full cost recovery. The Estimated Cost and Federal Administrative Charge (if applicable) is \$2,218 per month.</p> <p>In accordance with Article V – "Billings and Payment" of the Services MOA, ACO has provided prepaid funding to DOE in the amount of \$3,327 (which is to be transferred from previous Reverse Work Authorization 813648 with the balance of \$40,473 to be returned to ACO). This is the existing estimate of cost to be incurred in 45 calendar days to cover services to be provided under this WA prior to the services being provided. During the performance period of this WA, prior to the end of each calendar month ACO shall pay DOE (payments to be sent to the address below) the estimated monthly amount set forth in the Estimated Cost section of this WA (\$2,218 per month) for the services provided.</p>			

During the performance period of this WA, prior to the end of each calendar month DOE shall provide ACO the actual costs incurred during the previous month. DOE shall also provide the estimated cost of services performed but not yet billed (the "remaining amount") and the Estimated Cost of the services to be performed during the current month (\$2,218). The monthly Estimated Costs are based on the average cost of services over the period of October 2018 to March 2019. The type and extent of services provided to ACO are not expected to differ significantly from services provided during the aforementioned six (6) month period as compared to the initial 18 months of the deployment of the HALEU Demonstration Project. DOE and ACO shall compare the monthly invoice of actual costs, remaining amount to be billed, and the current monthly Estimated Cost as a total Cost-To-Date for services to the Total Payments Remitted periodically, to ensure advance funding is available to pay for services. The total cost for services will be tracked and trued up with the amount paid by ACO periodically. Furthermore, DOE may need to revise the Estimated Cost to ensure adequate advance funding, or otherwise seek a monthly adjustment. DOE and Centrus will also revise the monthly Estimated Cost upon change in services and prior to the second 18 month period of the demonstration project.

DOE Payment Address:

US Bank
 Attn: Government Lockbox
 Mail code #SL-MOC2GL
 1005 Convention Plaza
 St. Louis, MO 63101

The monthly statements of actual costs shall be submitted via e-mail to Centrus Energy Corporation Accounts Payable at Acctspay@centrusenergy.com and to Burkittvl@centrusenergy.com. The monthly statement of actual costs shall include:

- i. Statement date;
- ii. Work Authorization number;
- iii. Information as set forth in the Deliverable section of the Statement of Work; and
- iv. Description, quantity, unit of measure, unit price and extended price of services performed.

The DOE prime contractor providing the services under this WA will invoice DOE based on actual costs incurred in accordance with its approved accounting practices and per the Allowable Cost and Payment clause (FAR 52.216-7) included in its prime contract with DOE. Costs charged to ACO by DOE shall be those charged to DOE under the DOE Contractor's prime contract for the service provided under this WA plus any applicable additional DOE costs associated with performing the services and the 3% Federal Administrative Charge, if applicable.

ACO Approval:		U.S. DEPARTMENT OF ENERGY APPROVAL:	
		Work Authorization Technical Representative:	
		Signature: <i>[Handwritten Signature]</i>	Date: <i>5/31/19</i>
		Contracting Officer:	
		Signature:	Date:
		DOE NE ORSO Management Approval	
		Signature:	Date:
		DOE PPPO Management Approval:	
Digitally signed by Dale Bauer Date: 2019.05.30 15:48:41 -04'00'		Signature:	Date:
Signature: Bauer	Date:	Signature:	Date:
Title: Manager, Government Contracts		Title: PPPO Manager	

Statement of Work for Telecommunications Support

1.0 PURPOSE

The purpose of this statement of work (SOW) is for the U. S. Department of Energy (DOE) to provide to the American Centrifuge Operating LLC (ACO) High Assay Low-Enriched Uranium (HALEU) Demonstration Project Telecommunications Support. This support will be provided through DOE's prime contractor and applicable subcontractors.

2.0 SCOPE OF WORK

- 2.1 DOE through its contractor performing the services shall provide for the full provisioning, engineering, operations, maintenance, and administration of current and emerging voice and data telecommunications services, but not limited to the following services:
- 2.1.1 Provide local and long distance voice network services to all current and future ACO subleased facilities.
 - 2.1.2 Provision end user access to Site Emergency 911 services.
 - 2.1.3 Provide pagers and pager administration services and support as requested.
 - 2.1.4 Install new telephone service to offices and other areas of the ACO subleased facilities, as requested. This shall include the installation and termination of cabling to/from telecommunications closets and the end user if required.
 - 2.1.5 Manage and maintain the equipment and circuits for all ACO subleased facilities, including the administrative telephone switch in building X-3000, and the process telephone switch in X-3001.
 - 2.1.6 Meet ACO business needs for highly available, scalable, reliable, and secure voice and data telecommunications services.
 - 2.1.7 Provide voice and data telecommunications services design and engineering to meet ACO strategies and requirements.
 - 2.1.8 Install, operate, and manage voice services for all ACO personnel and associated ACO contractor personnel.
 - 2.1.9 Install, manage, and route fiber and copper cabling used in support of data communication between ACO subleased facilities.
 - 2.1.10 Coordinate with external voice and data telecommunications services providers.
 - 2.1.11 Coordinate with ACO telecommunications personnel any work which will affect the design or operation of the ACO telecommunications infrastructure.
 - 2.1.12 Coordinate service requests and delivery with the ACO IT Help Desk.
 - 2.1.13 Provide local and long distance usage monitoring and reporting.
 - 2.1.14 Provide voice messaging services, including storage capacity management, administration, end user tools for managing voice mailboxes, and end-user training materials.

- 2.1.15 Coordinate, reconcile and provide detailed billing.
- 2.1.16 Continuously monitor and update inventory to reflect moves, addition, and changes. Disconnect unused voice and data lines subject to ACO Site Technical Representative (STR) approval. Ensure that costs to ACO associated with line counts reflect active lines in use.
- 2.1.17 Provide any Move/Add/Change (MAC) services such as the installation, relocation, and/or disposal of the telecommunications components as requested by the ACO STR. This includes MACs that may result from building modifications and remodeling. This would also include any software and/or hardware changes necessary to add or remove requested capabilities and features. Provisions must be made to support emergency MAC situations that occur from time to time.
- 2.1.18 Provide notice to all affected users of any planned or unplanned local, long distance, voice mail or enhanced telephony service interruptions, including day, time of day, and estimated duration of outage.

3.0 REFERENCES

None

4.0 TRAINING & QUALIFICATIONS

- For work activities performed in ACO subleased space:
 - DOE through its contractor performing the services shall ensure that assigned personnel are appropriately trained and qualified to perform their assigned duties prior to assigning work activities under this SOW.
 - The ACO STR shall establish training requirements for DOE contractor personnel performing work activities in ACO subleased space. The ACO STR will transmit the established requirements to the DOE contractor performing the services.
 - DOE through its contractor performing the services shall work with the ACO Training Manager to obtain approval for DOE contractor performing the services training modules which are considered equivalent to ACO required training. Once a DOE contractor training module is approved for equivalency, any changes to the module must be reviewed by the ACO Training Manager prior to implementation of the change.
 - DOE through its contractor performing the services will maintain a tracking system for DOE contractor employees training requirements including training frequency and due dates.
 - DOE through its contractor performing the services will routinely monitor training due dates and verify that training requirements are current or work limitations are issued according to ACO Training Program Procedure, ACD2-TP-002, Section 4.5 using the Requirements Limitation Matrix (TRLM) TPP-2603-0003.
 - DOE through its contractor performing the services will notify the ACO STR in writing when a DOE Contractor employee designated to support ACO under this SOW is within 10 working days of becoming past due on any ACO training requirement.
 - The ACO STR will notify the DOE Contractor performing the services in writing of any changes in training requirements for personnel performing work under this SOW.
 - DOE through its contractor performing the services must provide timely notification to the ACO Training Manager of completed General Employee Training (GET) training dates for all DOE contractor personnel requiring access thru the automated access control system. Failure to provide General Employee Training (GET) dates to the Training Manager prior to expiration will result in termination of automated access to ACO subleased space.

5.0 CONTRACTOR EQUIPMENT REQUIREMENTS

- DOE through its contractor performing the services must provide all equipment and materials required to perform the work under this SOW, unless mutually agreed upon between the DOE Point of Contact and the ACO Contracts Point of Contact.

6.0 ACO SUPPLIED REQUIREMENTS

- ACO shall install building interior conduit and cable trays, when required, for routing telecommunications cables.

7.0 QUALITY REQUIREMENTS

- ACO shall monitor and control the progress of work by observing work activities, review of records and reports, emails, or documented phone calls.
- DOE through its contractor performing the services shall perform work in accordance with their approved QA/QC Program and implementing procedures.

8.0 DELIVERABLES

- DOE through its contractor performing the services shall supply telecommunications equipment, telephones, pagers, communications cabling, support, and services as specified in the SOW Scope.
- DOE through its contractor performing the services shall generate and supply monthly telephone usage reports for all local and long distance calls generated from ACO telephones.
- DOE through its contractor performing the services shall generate and supply monthly pager usage reports for all pagers supplied to ACO employees.
- DOE shall provide ACO adequate supporting documentation to validate all invoiced costs on a monthly basis to include:
 - Details of all services performed as charged to this Work Authorization. Provide a list that specifies:
 - (1) The ACO point of contract (the requestor's name) for the service(s) performed;
 - (2) Services performed;
 - (3) Date the services were performed; and
 - (4) Name(s) and number of hours of DOE prime contractor personnel associated with performing services.

9.0 POINT(S) OF CONTACT

- | <u>POSITION</u> | <u>NAME</u> | <u>LOCATION</u> | <u>PHONE</u> |
|----------------------------|--------------|-----------------|--------------|
| Site Technical Rep
8427 | Chris Harper | Waverly | 740-796- |

10.0 SCHEDULE REQUIREMENTS

- Requested services must be provided by the ACO established need date specified at the time of the request, unless an alternate date is mutually agreed upon by the DOE Point of Contact and the ACO STR.

11.0 SECURITY REQUIREMENTS

- DOE through its contractor performing the services must provide the ACO STR a list of personnel required to access ACO subleased areas in order to perform this SOW.
- Personnel required to enter ACO subleased areas to perform services must have the appropriate security clearance extended to ACO.
- DOE through its contractor performing the services must follow ACO security requirements when performing work in ACO subleased areas.

12.0 SPECIAL PROVISIONS

- Services under this Statement of Work will be provided in accordance with applicable DOE Contractor policies and procedures. DOE Contractor policies and procedures must comply with ACO requirements.
- The ACO STR must provide prior approval for any work activity requiring access or traversing ACO subleased space, which was not requested ACO.
- Work activities in ACO subleased space must meet ACO fire safety requirements.
- Combustibles in ACO subleased space must be minimized and work area must be cleaned at completion of activity.
- No changes are to be made to requirements in this SOW with regards to any programs, processes, or procedures without review and concurrence by the DOE Contact and the ACO Contracts Contact identified herein. The ACO STR will identify ACO programs, processes, or procedures applicable to this SOW.

13.0 ACCEPTANCE OF SERVICES

- The ACO STR shall verify and document that all deliverables and services requested have been received and that all requirements have been satisfied. Any nonconformance shall be just cause for rejection of the service provided and for delayed payment until DOE through its contractor performing the services complies with the SOW.
- The services provided under this SOW shall be inspected by ACO personnel and all services shall be approved by the ACO STR.



Work Authorization Form
UNITED STATES DEPARTMENT OF ENERGY (DOE)
(For Services provided to American Centrifuge Operating LLC [ACO])

Project Title: Infrastructure Support Services (ISS) Security & HSPD-12 Security Badging		Date Prepared: February 26, 2020	
ACO Contact: Angela Wright (Technical) David Adams (Contracts)		Work Authorization No.: 902084	
ACO Phone No.: 740-897-2749 (Technical) 740-897-4711 (Contracts)		Requestor: ACO	
DOE Contact: Robert Henry/Mark Allen, Technical SMEs Matt Vick WA Technical Representative/Contracts		Work Order No.:	
Phone No.: 740-897-3815 (R. Henry) 740-441-6842 (M. Allen) 740-897-2089 (M. Vick)		MODIFICATION	
Start Date: June 1, 2019	Modification No.: 5	Modification Date: 02/26/2020	
End Date: December 31, 2020	Funding (+/-):+\$2,710		
Estimated Cost: \$271 per month	WFO No.:4900248 (DOE-EMCBC)/ 0520662 (DOE- Science)		
Funding Obligation: \$5,149			
WORK EXPLANATION/REQUIREMENTS: SCOPE (Define deliverables, milestones, quantities, special requirements, etc.) (If modification, describe change.)			
Modification 5 extends the End Date to December 31, 2020, increases the funding Obligation by \$2,710 from \$2,439 to \$5,149. This also changes the statement of work to remove cyber security support, adds Special Provisions and provides miscellaneous clean up and modifications.			
ACO Approval:		U.S. DEPARTMENT OF ENERGY APPROVAL:	
		DOE PPPO PORTS Federal Security Specialist	
		Date: 2/27/2020	
		Work Authorization Technical Representative:	
		Signature: <i>[Signature]</i> Date: 2/26/20	
		Contracting Officer: Jamie A. Ford	
		Signature: <i>[Signature]</i> Date: 2-28-20	
		DOE NE ORSO Management Approval: <i>[Signature]</i> 2-28-20	
		DOE PPPO Management Approval:	
Signature: <i>[Signature]</i> Date: 2/26/20		Signature: <i>[Signature]</i> Date: 02/27/2020	
Title: Contract Buyer		Title: PPPO Manager	

MA 2/26/20

Statement of Work
Infrastructure Site Services (ISS) Security Support & HSPD-12 Security Badging

1.0 Purpose

The purpose of this Statement of Work is for DOE, through its contractor performing the services, to provide the following:

- 1.1 Homeland Security Presidential Directive 12 (HSPD-12) badging services to American Centrifuge Operating, LLC (ACO) and their contractors in accordance with DOE O 206.2, Identity, Credential, and Access Management.
- 1.2 Lock and key support in accordance with DOE O 473.3A Chg. 1, *Protection Program Operations*, as requested.

All work shall be performed in accordance with all applicable permits, laws, and regulations of the State of Ohio, the Federal Government, DOE Orders, and all other Codes, Standards, and Procedures as applicable.

2.0 HSPD-12 Badging

- 2.1 DOE through its contractor performing the services will provide all enrollments, activations, updates and destructions of the HSPD-12 badges as requested. However, all DOE HSPD-12 credentials will be migrating toward a new badge design that may not be compatible with current ACO automated access control systems.
- 2.2 DOE through its contractor performing the services will provide the labor, materials, and equipment to provide HSPD-12 security badging for ACO personnel and their contractors' as requested by the ACO Site Technical Representative (STR). The number of personnel (ACO and subcontractors) to be enrolled in the HSPD-12 Credentialing Center is estimated not to exceed 100 individuals for calendar year 2020. These personnel and services will be identified to DOE's contractor performing the services on an as needed basis.
- 2.3 Following enrollment, personnel will be scheduled for an appointment at the HSPD-12 Credentialing Center for activation of the credentials.
- 2.4 ACO management will be responsible for ensuring the personnel to be issued HSPD-12 badges expeditiously schedule enrollment and activation appointments on-line through the General Services Administration (GSA) Scheduler system.

3.0 Lock and Key Support

- 3.1 DOE through its contractor performing the services will provide limited lock and key services to the ACO, as requested. This support will be provided in accordance to applicable portions of DOE O 473.3A Chg.1. Services will be provided in a timely manner. DOE through its contractor shall furnish all equipment and material necessary for the normal execution of this task. Any specialty equipment or material shall be either purchased through ACO, or by the DOE contractor providing the service. This determination will be made by ACO, in consultation with the DOE PPPO PORTS Federal Security Specialist at the time the task is planned and/or identified.
- 3.2 Lock and Key service is a cost reimbursable, direct charge activity.

5.0 POINT(S) OF CONTACT

The ACO STR is Angela Wright, 740-897-2749

7.0 Reporting

DOE will report following the end of each Government Fiscal Year the actual cost of performance under this SOW.

8.0 Cost Estimate and Assumptions

8.1 Badging of ACO and their contractor personnel for the near term is estimated not to exceed 100 personnel for an estimated cost of \$45.00 for labor and materials per badge. The estimate assumes no new staffing, overtime, equipment or facility upgrades are needed to support the task. Estimate also assumes personnel are scheduled as the badging office can accept personnel.

8.2 The estimate for lock and key support will be prepared as needed.

9.0 Special Provisions

9.1 Services under this SOW will be provided in accordance with applicable PPPO Contractor policies and procedures unless otherwise specified herein.

9.2 No changes are to be made to requirements in the SOW with regards to any programs, processes, or procedures without the review and concurrence of PPPO Federal Security personnel and the ACO Contracts contact identified herein.