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| --- | --- | --- |
| 1. Identification Number:  **U.S. Department of Energy** FEDERAL ASSISTANCE REPORTING CHECKLIST **AND INSTRUCTIONS**  **See Block 1 of the Assistance Agreement** | 2. Program/Project Title:  **See Block 21 of the Assistance Agreement** | |
| 3. Recipient:  **See Block 5 of the Assistance Agreement** |
| 4. Reporting Requirements: | Frequency | Addressees |
| **A. MANAGEMENT REPORTING** |  |  |
| **☒** Research Performance Progress Report (RPPR) (RD&D Projects) | O-See Note 5.a. | <https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx> |
| **☐** Progress Report (Non-RD&D Projects) |  |  |
| **☒** Special Status Report | A | <https://www.fedconnect.net/fedconnect/default.aspx>  and an E-mail to the DOE Program Manager listed in Block 15 of the Assistance Agreement. The E-mail address is listed on the Assistance Agreement Continuation Sheet. |
| **B. SCIENTIFIC/TECHNICAL REPORTING** |  |  |
| (Dissemination of results is required for RD&D projects. Reports & other S&T publications/products must be submitted using the appropriate DOE Announcement Notice (AN) located at: <https://www.osti.gov/elink>) |  |  |
| **☒** Scientific & Technical Reporting Product | O |  |
| Product Announcement Notice (AN) |  |  |
| 1. Journal Article-Accepted Manuscript **DOE AN 241.3** | O-See Note 5.b. | <http://www.osti.gov/elink-2413> |
| 1. Scientific/Technical Conference Paper/ **DOE AN 241.3**   Presentation or Proceedings | O-See Note 5.c. | <http://www.osti.gov/elink-2413> |
| 1. Scientific/Technical Software & Manual **DOE AN 241.4** |  | <http://www.osti.gov/estsc/241-4pre.jsp> |
| 1. Other STI (e.g., dissertation/thesis, see instructions) **DOE AN 241.3** |  | <http://www.osti.gov/elink-2413> |
| **☒** Final Scientific/Technical Report **DOE AN 241.3** | F-See Note 5.d. | <http://www.osti.gov/elink-2413> |
| **C. FINANCIAL REPORTING** |  |  |
| **☒** SF-425 Federal Financial Report | Q,-See Note 5.e.  F-See Note 5.f. | E-mail to [FFR@science.doe.gov](mailto:FFR@science.doe.gov) <https://www.fedconnect.net/fedconnect/default.aspx> |
| **D. CLOSEOUT REPORTING** |  |  |
| **☒** Invention Certification | F-See Note 5.g. | <https://www.fedconnect.net/fedconnect/default.aspx> |
| **☒** SF-428 & 428B Final Property Report | F-See Note 5.g. | <https://www.fedconnect.net/fedconnect/default.aspx> |
| **☒** Other (see special instructions) | O-See Note 5.g. | <https://www.fedconnect.net/fedconnect/default.aspx> |
| **E. OTHER REPORTING** |  |  |
| **☐** Annual Indirect Cost Proposal |  |  |
| **☒** Audit of For-Profit Recipients | O-See Note 5.h. | <https://www.fedconnect.net/fedconnect/default.aspx>  & send to CFO at: [DOE-Audit-Submission@hq.doe.gov](mailto:DOE-Audit-Submission@hq.doe.gov) |
| **☒** SF-428 Tangible Personal Property Report Forms Family | F-See Note 5.i. | <https://www.fedconnect.net/fedconnect/default.aspx> |
| **☒** Other (see special instructions) |  |  |
| **☒** SBIR/STTR Funding Agreement Certification-Life Cycle | O-See Note 5.j. | <https://www.fedconnect.net/fedconnect/default.aspx> |
| **☒** Subject Invention Reporting and Patent Reporting | O-See Note 5.k. | <https://www.nist.gov/iedison> |
| **☒** NDAA of 2019 Annual Technical or Business Assistance Report | O-See Note 5.l. | <https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx> |
| **☒** Disclosure of Foreign Relationships | O-See Note 5.m. | <https://www.fedconnect.net/fedconnect/default.aspx>,  [U.S. Small Business Administration](https://www.sbir.gov/feedback), and E-mail to the Grants/Agreement Officer and DOE Assistance Agreement Administrator identified in Block 26 and page 2 of the Assistance Agreement, respectively. The E-mail format is [FirstName.LastName@science.doe.gov](mailto:FirstName.LastName@science.doe.gov). |
| **☒** Current and Pending Support | O-See Note 5.n. | <https://pamspublic.science.energy.gov/webpamsepsexternal/login.aspx>  <https://www.fedconnect.net/fedconnect/default.aspx> and E-mail to the Grants/Agreement Officer and the DOE Assistance Agreement Administrator identified in Block 26 and page 2 of the Assistance Agreement, respectively. The E-mail format is [FirstName.LastName@science.doe.gov](mailto:FirstName.LastName@science.doe.gov). |
| **FREQUENCY CODES AND DUE DATES:**  **A** – Within 5 calendar days after events or as specified.  **Y** – Yearly; within 90 days after the end of the reporting period.  **Q** – Quarterly; within 30 days after end of the reporting period.  **O** – Other; See special instructions for further details. | **F** – Final; within 90 calendar days after expiration or termination of the award.  **Y180** – Yearly; within 180 days after the end of the recipient’s fiscal year.  **S** – Semiannually; within 30 days after end of reporting period. | |
| 5. Special Instructions:   1. **RESEARCH PERFORMANCE PROGRESS REPORT (RPPR):** The Recipient must report on the progress of the research performance based on the first three (3) months of the Phase I project period. The report is to be provided verbally to the DOE Program Manager listed in the Assistance Agreement at the DOE SBIR/STTR Phase I Principal Investigator (PI) meeting which will occur approximately four (4) months after the award start date. The report should address all of the elements in the RPPR (attachment 1 to this checklist). In the event the PI cannot attend the DOE SBIR/STTR Phase I PI meeting, the RPPR is to be communicated verbally by telephone to the DOE Program Manager within two weeks of the PI meeting. The Recipient is responsible for contacting the DOE Program Manager to schedule the telephone call. Recipients with awards with a duration greater than nine (9) months must submit a second progress report within 30 days at the end of nine (9) months. This second project report is to be submitted to the Portfolio Analysis and Management Systems (PAMS). In the event that PAMS functionality is not in place when the RPPR is due, the RPPR shall be submitted by email to the DOE Program Manager and to the DOE SBIR/STTR program office at [SBIR-STTR@science.doe.gov](mailto:SBIR-STTR@science.doe.gov). If applicable, please include the NDAA of 2019 Annual Technical or Business Assistance Report with the appropriate RPPR as required in the special instructions (5.l.).   RPPRs must not contain any Protected Personally Identifiable Information, limited rights data (proprietary data), restricted computer software, classified information, information subject to export control classification, or other information not subject to release. The Government will have unlimited rights, including the right to distribute copies to the public, in all data delivered in reports, unless appropriately marked (or otherwise indicated if disclosed verbally) using the SBIR/STTR Rights Notice included in SBIR/STTR-GTC-0025-CH RIGHTS IN DATA - SBIR/STTR PROGRAM of the General Terms and Conditions for DOE SBIR and STTR Phase I and Phase II Awards.   1. **JOURNAL ARTICLE-ACCEPTED MANUSCRIPT:** See Section B., SCIENTIFIC/TECHNICAL REPORTING, of the Federal Assistance Reporting Instructions, for specific guidance. 2. **SCIENTIFIC/TECHNICAL CONFERENCE PAPER/PRESENTATION OR PROCEEDINGS:** See Section B., SCIENTIFIC/TECHNICAL REPORTING, of the Federal Assistance Reporting Instructions, for specific guidance. 3. **FINAL SCIENTIFIC/TECHNICAL REPORT:** The Final Scientific/Technical Report is due 14 calendar days after expiration or termination of the Phase I award. The Final Scientific/Technical Report shall be marked in accordance with the clause entitled “Rights in Data – SBIR/STTR Program” of the award. Please note, the report must not contain any Protected Personally Identifiable Information, limited rights data (proprietary data), restricted computer software, classified information, information subject to export control classification, or other information not subject to release The Report shall include a single page summary as the first page identifying the purpose of the research, a brief description of the research carried out, the research findings or results, and potential applications of the research. This summary may be published by DOE and should not contain proprietary information. 4. **FEDERAL FINANCIAL REPORT (FFR) (SF-425):** Quarterly and Final Federal Financial Reports (FFRs) must be submitted to the U.S. Department of Energy, Office of Science-Consolidated Service Center (SC-CSC), Office of Financial Services, at [FFR@science.doe.gov](mailto:FFR@science.doe.gov) and should only include financial information for awards issued by the CSC’s Lemont location (see block 16 of the Assistance Agreement). Quarterly FFRs must be submitted 30 calendar days following the end of each calendar quarter (March 31, June 30, September 30, and December 31) in accordance with the report instructions. The FFR and instructions are available at the web address included in Section C., FINANCIAL REPORTING, of the attached instructions. 5. **FINAL FFR (SF-425):** A Final FFR is required at the end of Phase I. If a Phase I award continues into Phase II, a second Final Federal Financial Report is required after the Phase II Project Period ends for costs associated with Phase II only. Final FFRs must be e-mailed to [FFR@science.doe.gov](mailto:FFR@science.doe.gov) and also submitted through Fedconnect. The FFR and instructions may be found at the web address included in Section C., FINANCIAL REPORTING, of the attached instructions. After submitting a Final FFR for an individual award, do not continue to report the award on subsequent FFR submissions unless a correction is required. In accordance with 2 CFR 200.344, final FFRs must be submitted no later than 120 calendar days after the end date of the Phase I and Phase II period of performance. Final FFRs for a prior Phase must be submitted before award of a sequential Phase II renewal (final FFR for Phase I before award of a Phase II, final FFR for Phase II before award of a Phase IIA/Phase IIB, or final FFR for Phase IIA/Phase IIB before award of a Phase IIC). 6. **CLOSEOUT REPORTING:** DOE will provide additional detailed closeout reporting instructions to the recipient by letter upon award expiration. In accordance with 2 CFR 200.344, the Closeout Reports must be submitted no later than 120 calendar days after the end date of the period of performance. See Section D., CLOSEOUT REPORTS, of the attached instructions for additional guidance. 7. **AUDIT OF FOR-PROFIT RECIPIENTS:** See Section E., OTHER REPORTING, of the Federal Assistance Reporting Instructions, for guidance and submission requirements. 8. **SF-428:** See Section E. OTHER REPORTING, SF-428 Tangible Personal Property Report Forms Family, of the Federal Assistance Reporting Instructions, for guidance and submission schedules. 9. **SBIR/STTR FUNDING AGREEMENT CERTIFICATION – LIFE CYCLE CERTIFICATION:** The certification must be submitted 30 days prior to the end of the Phase I Project Period End Date. See Section E., OTHER REPORTING, of the Federal Assistance Reporting Instructions for specific guidance.   5. Special Instructions **(CONTINUED)**:   1. **SUBJECT INVENTION REPORTING AND PATENT REPORTING:** Failure to comply with the terms of the agreement may result in a loss of rights in Subject Inventions, including, but not limited to, forfeiture of retained rights. All Subject Inventions (conceived or first actually reduced to practice in the performance of the above identified agreement) must be timely reported at <https://www.nist.gov/iedison>. Invention reporting is required regardless of any patent protection sought or the subject matter (e.g. software invention). Any manuscript describing the invention for publication or of any on sale or public use planned for an invention must be promptly reported through iEdison. For assistance with iEdison, please contact [iedison@nist.gov](mailto:iedison@nist.gov). For assistance regarding DOE's administration of Subject Inventions or patents, please contact Intellectual Property Law (IPL) at (630) 283-7117 or [Chicago-IP@science.doe.gov](mailto:Chicago-IP@science.doe.gov). 2. **NDAA OF 2019 ANNUAL TECHNICAL OR BUSINESS ASSISTANCE REPORT:** A Recipient that receives technical or business assistance from a vendor (either funded directly by DOE or by the Recipient using award funds) must submit a description of the technical or business assistance provided and the benefits and results of the technical or business assistance provided. This report shall be submitted annually for each individual vendor that provided technical or business assistance using the template entitled “*NDAA of 2019 Annual Technical or Business Assistance Report”* below. To fulfill this reporting requirement, a Recipient must include this template with its responses in an appendix at the end of the Final Technical Report.   **NDAA of 2019 Annual Technical or Business Assistance Report**  Vendor name:  Type of service(s):  Please check all that apply:   * product sales * intellectual property protections * market research * market validation * development of regulatory plans * development of manufacturing plans * access to technical and business literature available through on-line data bases * other:  please describe:   Please identify any benefits of the service(s) provided:  Please identify any results of the service(s) provided:  Additional Information (optional):  Please provide any additional information/feedback/suggestions on the service(s) provided by the vendor that may be used to improve the commercialization outcomes of your SBIR/STTR award and/or commercialization outcomes of other SBIR/STTR awardees.   1. **DISCLOSURE OF FOREIGN RELATIONSHIPS:** Pursuant to award term SBIR/STTR-GTC-0041-CH Reporting of the Disclosure of Foreign Relationships, all updated Disclosures of Foreign Relationships must be submitted by the Recipient to the DOE Contracting Officer and Grants Management/Contract Specialist through Fedconnect and the U.S. Small Business Administration (SBA) (1) within 30 days of a change and/or potential risk to national security as described in (i), (ii), and/or (iii) of the aforementioned award term; and (2) 30 days prior to the end of the Phase I Project Period End Date with the submission of the Funding Agreement Certification – Life Cycle Certification. Updates may be reported to SBA by using the SBIR.gov Website Support/Feedback tool at (<https://www.sbir.gov/contact-us>). Select “Company Registration/Updates/SBC ID” for Comment/Feedback Type and include in the Detailed Comments section the following: “Need to report an update to previously submitted Foreign Disclosures.” SBA will provide additional instructions following submission of the request. 2. **CURRENT AND PENDING SUPPORT:** Required current and pending support disclosure statements and corresponding CVs/Biosketches must be submitted through PAMS, Fedconnect and by e-mail to the DOE Program Manager, Contracting Officer and Grants Management/Contract Specialist (1) at least sixty (60) days prior to the individual joining the project; (2) in the event of changes, within thirty (30) days of the changes; and (3) at least thirty (30) days prior to a proposed change related to participation in a Foreign Government-Sponsored Talent Recruitment Program. The current and pending support deliverables must be submitted as required by the award term SBIR/STTR-GTC-0074-CH Current and Pending Support. | | |

**Federal Assistance Reporting Instructions**

**A. MANAGEMENT REPORTING**

For awards involving RD&D a Research Performance Progress Report is required to be submitted. For all other awards a Progress Report is required to be submitted.

***Either the Research Performance Progress Report (RPPR) or the Progress Report must be checked, but not both.***

**Research Performance Progress Report (RPPR) (RD&D Projects)**

See the attachment entitled “Research Performance Progress Report” for instructions on what the Recipient is to include in the RPPR.

**Progress Report (Non-RD&D Projects)**

The Recipient must provide a concise narrative assessment of the status of work and include the following information and any other information identified under Special Instructions on the Federal Assistance Reporting Checklist:

1. The DOE award and report information:

a. The DOE Award Number (as it appears on the award face page)

b. Recipient Name (as it appears on the award face page)

c. Project Title

d. PD/PI Name, Title and Contact Information (e-mail address and phone number)

e. Name of Submitting Official, Title, and Contact Information (e-mail address and phone number), if other than PD/PI

f. Project Period (Start Date, End Date)

g. Report Submission Date

h. Reporting Period Start and End Date

2. A written comparison of the actual project accomplishments with the project goals and objectives established for the reporting period**;** if goals and/or objectives for the reporting period were not met, a detailed description of the variance shall be provided.

3. A discussion of what was accomplished under these goals and objectives established for this reporting period, including major activities, significant results, major findings or conclusions, key outcomes or other achievements. This section should not contain any proprietary data or other information not subject to public release. If such information is important to reporting progress, do not include the information, but include a note in the report advising the reader to contact the Principal Investigator or the Project Director for further information.

4. Cost Status. A comparison of the approved budget by budget period and the actual costs incurred during the reporting period shall be provided. If cost sharing is required, the cost breakdown shall show the DOE share, recipient share, and total costs.

5. Schedule Status. List milestones, anticipated completion dates and actual completion dates. If you submitted a project management plan with your application, you must use this plan to report schedule and budget variances. You may use your own project management system to provide this information.

6. Describe any changes during the reporting period in project approach and the reasons for these changes. Remember, significant changes to the project objectives and scope require prior approval by a DOE Contracting Officer.

7. Describe any actual or anticipated problems or delays and any actions taken or planned to resolve them.

8. Describe any absence or changes of key personnel or changes in consortium/teaming arrangement during the reporting period.

9. List and describe any product produced or technology transfer activities accomplished during this reporting period, such as:

A. Publications (list journal name, volume, issue); conference papers; or other public releases of results. Attach or send copies of public releases to the DOE Program Manager identified in Block 15 of the Assistance Agreement Cover Page.

1. Web site or other Internet sites (list the URL) that reflect the results of this project.
2. Networks or collaborations fostered.
3. Technologies/Techniques (Identify and Describe).
4. Inventions/Patent Applications (Identify and Describe with date of application)
5. Other products, such as data or databases, physical collections, audio or video, software or NetWare, models, educational aid or curricula, instruments or equipment (Identify and Describe).

**Special Status Report**

The recipient must report the following events by e-mail as soon as possible after they occur:

1. Developments that have a significant favorable impact on the project.
2. Problems, delays, or adverse conditions which materially impair the recipient’s ability to meet the objectives of the award or which may require DOE to respond to questions relating to such events from the public. The recipient must report any of the following incidents and include the anticipated impact and remedial action to be taken to correct or resolve the problem/condition:
3. Any single fatality or injuries requiring hospitalization of five or more individuals.
4. Any significant environmental permit violation.
5. Any verbal or written Notice of Violation of any Environmental, Safety, and Health statutes.
6. Any incident which causes a significant process or hazard control system failure.
7. Any event which is anticipated to cause a significant schedule slippage or cost increase.
8. Any damage to Government-owned equipment in excess of $50,000.
9. Any other incident that has the potential for high visibility in the media.

**B. SCIENTIFIC/TECHNICAL REPORTING**

The dissemination of scientific and technical information (STI) ensures public access to the results of federally funded research. STI refers to information products in any medium or format used to convey results, findings, or technical innovations from research and development or other scientific and technological work that are prepared with the intention of being preserved and disseminated in the broadest sense applicable (i.e., to the public or, in the case of controlled unclassified information or classified information, disseminated among authorized individuals).  Access to and archival of DOE-funded STI are managed by the DOE Office of Scientific and Technical Information (OSTI). For information about OSTI see <http://www.osti.gov>.

For more information on STI submittals, see <https://www.osti.gov/submit-sti>.

By properly notifying DOE OSTI about the published results, the information will be made publicly accessible and discoverable through DOE web-based products.

**NOTE: SCIENTIFIC/TECHNICAL PRODUCTS INTENDED FOR PUBLIC RELEASE MUST NOT CONTAIN PROTECTED PERSONALLY IDENTIFIABLE INFORMATION (PII).** PII is defined as any information about an individual which can be used to distinguish or trace an individual’s identity. Some information that is considered to be PII is available in *public* sources such as telephone books, public websites, university listings, etc. This type of information is considered to be Public PII and includes, for example, first and last name, address, work telephone number, e-mail address, home telephone number, and general educational credentials. In contrast, *Protected* PII is defined as an individual’s first name or first initial and last name in combination with any one or more of the following types of information: social security number, passport number, credit card numbers, clearances, bank numbers, biometrics, date and place of birth, mother’s maiden name, criminal, medical and financial records, educational transcripts, etc., which could be mis-used if made publicly available.

1. **Scientific and Technical Reporting Products**
   1. **Journal Article-Accepted Manuscript**

Recipients are encouraged to publish their work in scholarly journals. When/if a recipient has an article accepted for publication in a peer-reviewed journal they are required to announce the publication to OSTI as detailed below. This Reporting Requirement will be denoted with the Frequency “O – Other” on the Checklist.

Public access to peer-reviewed scholarly publications can be achieved by following these instructions. If the Recipient has a journal article accepted for publication which contains information/data produced under the award, then the Recipient must submit an AN 241.3 for the author’s full-text version of the accepted manuscript, as described below, at the time the article meets the status of being “accepted” for publication.The Federal Government’s right to use the data produced under a Federal award is established in 2 CFR 200.315(d), U.S. Government’s retained license to published results of federally funded research.

Content. The Recipient is to announce to DOE the final peer-reviewed accepted manuscript (AM), i.e., the version of the journal article content that has been peer reviewed and accepted for publication in a journal, by providing a persistent link to the accepted manuscript on the recipient’s publicly accessible institutional repository or submitting the full text (see Electronic Submission Process below). The Recipient should NOT submit the journal’s published version of the article, i.e., the Recipient should NOT submit a copyrighted reprint. The Recipient should not submit the content of peer reviews or a commitment to publish. The Recipient should provide only the accepted manuscript content intended to be the published article.

DOE will make no additional review of the content of an AM because the AM is a version of the journal article with the content to be published (i.e., publicly released) by the journal publisher. The Recipient is responsible for ensuring the suitability of the content for public release. The terms and conditions of award provide that PII, proprietary, export control or classified information shall be protected. DOE may choose to defer providing public access until an administrative interval period has passed.

The Recipient must self-certify at the time of submission to DOE via E-Link that the content is appropriate and that it is not a copyrighted reprint, i.e., the final version of the published article. Recipients are reminded that the article is to include an acknowledgement of Federal support and a disclaimer.

Electronic Submission Process. The Journal Article-Accepted Manuscript must be announced via the DOE Energy Link System (E-Link) by submitting a completed DOE Announcement Notice (AN) 241.3 (<https://www.osti.gov/elink-2413>).

Within the AN 241.3, provide relevant journal information (article title, journal name, volume, issue, and any other pertinent publication information). Also provide a persistent link to the repository location of the accepted manuscript. An example of an acceptable persistent link is a URL to the specific location of the Journal Article-Accepted Manuscript hosted on a public, openly accessible university research publications website. If a persistent link is not available or if the website has access restrictions (preventing public access), then the Recipient must upload the full-text of the Accepted Manuscript using the AN 241.3 and E-Link instructions.

Full-text of accepted manuscripts must be in Adobe Portable Document Format (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematics, graphs, and charts. Please refer to <https://www.osti.gov/stip/about/faqs/what-type-of-pdf-for-submission> for PDF document creation**.**

* 1. **Scientific/Technical Conference Paper/Presentation or Proceedings**

Recipients are encouraged to announce Scientific and Technical Conference Papers/Presentations if they are the primary means by which certain research results are disseminated or if they contain research results not already announced to DOE by the Recipient in technical reports, accepted journal articles, or other STI. This Reporting Requirement will be denoted with the Frequency “O – Other” on the Checklist. Instructions for how to announce such STI can be found below. In cases where the Recipient is required to create and submit a Conference Proceedings, the Frequency will be “F – Final.”

Content. The content should include: (1) Name of conference; (2) Location of conference; (3) Date of conference; and (4) Conference sponsor. Also include an acknowledgement of Federal support and a disclaimer.

Electronic Submission Process. Scientific/technical conference papers/presentations or proceedings must be submitted via the DOE Energy Link System (E-Link) with a completed DOE Announcement Notice (AN) 241.3 (<https://www.osti.gov/elink-2413>).

DOE will not review conference papers or presentations prior to making publicly available via OSTI since they were already presented in a public setting during a conference. The Recipient is responsible for ensuring the suitability of the content for public release. The terms and conditions of award provide that PII, proprietary, export control or classified information shall be protected. The Recipient must self-certify at the time of submission to DOE via E-Link that the content is appropriate for and has been publicly released.

Scientific/technical conference papers or proceedings that are textual documents must be submitted in Adobe Portable Document Format (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematics, graphs, and charts. Please refer to <https://www.osti.gov/stip/about/faqs/what-type-of-pdf-for-submission> for PDF document creation**.** Audiovisual formats, such as PowerPoint (PPT) or video presentations, may be submitted as a Microsoft PPT file or audiovisual file by selecting the appropriate format on the AN 241.3 for the file to be uploaded or, in the case of videos posted on a publicly available website, by providing a link to the specific video. Format options and other instructions can be found at <http://www.osti.gov/stip/audiovisualsti>.

* 1. **Scientific/Technical Software & Manual**

Content. When a Recipient submits software to OSTI for dissemination, the following must be delivered: source code, the executable object code and the minimum support documentation needed by a competent user to understand and use the software and to be able to modify the software in subsequent development efforts, unless otherwise specified in the award.

Submission Process. The software submission must be accompanied by a completed DOE Announcement Notice (AN) 241.4 “Announcement of U.S. Department of Energy Computer Software.” The announcement notice and instructions are available on E-Link at <http://www.osti.gov/estsc/241-4.jsp>. The AN 241.4 may be filled online and submitted electronically, with a printed copy or note accompanying the shipped software package.

Software (including user guide or manual) must be submitted on computer disk (CD) shipped via regular mail to:

Energy Science and Technology Software Center

P.O. Box 1020

Oak Ridge, TN 37831

* 1. **Other STI**

Recipients are encouraged to announce other forms of STI especially if they are the primary means by which certain research results are disseminated or if they contain research results not already announced to DOE by the Recipient in technical reports, accepted journal articles, or other STI. This Reporting Requirement will be denoted with the Frequency “O – Other” on the Checklist.

Other types of STI produced which may be for used for public dissemination of project results include: dissertation/thesis, patent, book, or other similar products. These types of STI may also be announced using DOE AN 241.3 by following instructions on the E-Link website (<http://www.osti.gov/elink-2413>).

1. **Final Scientific/Technical Report**

For R&D type awards where a Final Scientific/Technical Report is required, recipients are required to create and submit a final technical report. This Reporting Requirement will be denoted with the Frequency “F – Final” on the Federal Assistance Reporting Checklist.

The scientific/technical report is intended to increase the diffusion of knowledge gained by DOE-funded research, and all requirements shall be interpreted in that light.

Content. Research findings and other significant STI resulting from the DOE-sponsored R&D project shall be included in the final scientific/technical report, subject to the following provisions:

1. The scientific/technical report is to cover the entire project period. For Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) awards, a final scientific/technical report must be submitted after the completion of each phase, e.g., Phase I, Phase II, and sequential Phase II, as described in the Special Instructions.

1. STI that is publicly accessible need not be duplicated in the report if a citation with a link to where the information may be found is included in the report. For example, articles found in PAGES (i.e., DOE’s Public Access Gateway for Energy and Science, <http://www.osti.gov/pages/>) are accessible to the public.
2. Provide identifying information: the DOE award number; sponsoring program office; name of recipient; project title; name of project director/principal investigator; and consortium/teaming members.
3. Include an acknowledgment of Federal support and a disclaimer, which must appear in the publication of any material as noted in the terms and conditions.
4. Include any limitations on public release of the report, if applicable. If the document being submitted contains patentable material or protected data (i.e., data first produced in the performance of the award that is protected from public release for a period of time by terms of the award agreement, e.g., SBIR/STTR protected data), then (1) prominently display on the cover of the report any authorized distribution limitation notices, such as patentable material or protected data (e.g., SBIR/STTR protected data notice in the award terms) and (2) clearly identify patentable or protected data on each page of the report. Reports delivered without such notices may be deemed to have been furnished with unlimited rights, and the Government assumes no liability for the disclosure, use or reproduction of such reports. Any restrictive markings must also be noted in the distribution limitation section of the Announcement Notice (AN) 241.3 (see Electronic Submission Process, below). No protected PII should be included (see PII definition).
5. Provide an abstract or executive summary, which should be a minimum of one paragraph and written in terms understandable by an educated layperson. (Refer to <https://www.osti.gov/stip/about/statutory-authorities> for ANSI/NISO guidance as needed.) The abstract included in an application may serve as a model for this.
6. Summarize project activities for the entire period of funding, including original hypotheses, approaches used, and findings. Include, if applicable, facts, figures, analyses, and assumptions used during the life of the project to support the results in a manner that conveys to the scientific community the STI created during the project. To minimize duplication, the report may reference STI, including journal articles, that is publicly accessible. See also #2.
7. For guidance offered by the National Information Standards Organization on typical attributes and content of a technical report, if needed, refer to ANSI/NISO Z39.18-2005 (R2010), Scientific and Technical Reports – Preparation, Presentation, and Preservation (see <https://www.osti.gov/stip/about/statutory-authorities>).

Electronic Submission Process. The final scientific/technical report must be submitted via the DOE Energy Link System (E-Link) with a completed electronic version of DOE Announcement Notice (AN) 241.3, “U.S. Department of Energy (DOE), Announcement of Scientific and Technical Information (STI).” The Recipient can complete, upload, and submit the DOE AN 241.3 online via E-Link (<https://www.osti.gov/elink-2413>).

The Recipient must mark the appropriate block in the “Intellectual Property/Distribution Limitations” Section of the DOE AN 241.3. Reports that are electronically uploaded must not contain any Protected Personally Identifiable Information (PII), limited rights data, classified information, information subject to export control classification, or other information not subject to public release. Limited rights data means data (other than computer software) developed at private expense that embody trade secrets or are commercial or financial and confidential or privileged. SBIR/STTR Protected Data and other data subject to statutory data protection authorized by the award may be submitted, provided such data is properly marked and identified during submission. Submissions must not contain any “Proprietary”, “Confidential” or “Business Sensitive” markings or similar restrictive markings not authorized by the applicable government agreement; it is acknowledged that DOE has the right to cancel or ignore such markings. During the upload process, the Recipient must self-certify that no content of this nature is being submitted. Recipients should contact the cognizant DOE Contracting Officer or Technical Project Officer for the award with any questions about this requirement.

Text documents must be submitted in Adobe Portable Document Format (PDF) and be one integrated PDF file that contains all text, tables, diagrams, photographs, schematics, graphs, and charts. Please refer to <https://www.osti.gov/stip/about/faqs/what-type-of-pdf-for-submission> for PDF document creation**.**

**C. FINANCIAL REPORTING**

The Recipient must complete the SF-425 as identified on the Reporting Checklist in accordance with the report instructions. A fillable version of the form is available at <https://www.grants.gov/forms/forms-repository/post-award-reporting-forms>.

**D. CLOSEOUT REPORTS**

**Final Invention Certification**

The Recipient must provide a DOE Form 2050.11, “INVENTION CERTIFICATION.” This form is available at <https://science.osti.gov/OCC-CH/Resources> under Reporting Forms.

**Final Property Report**

See Instructions under **SF-428 Tangible Personal Property Report Forms Family** below.

**E**. **OTHER REPORTING**

**Audit of For-Profit Recipients**

As required by a class deviation to 2 CFR 910 titled, [FINDINGS AND DETERMINATION for CLASS DEVIATION to 2 CFR 910.501 AUDIT REQUIREMENTS FOR FOR-PROFIT ORGANIZATIONS](https://www.energy.gov/sites/default/files/2024-10/910-501%20Audit%20Req%20D-F%20Class%20Deviation%20sign.pdf), a For-Profit entity which expends $1,000,000.00 or more during their most recent fiscal year in DOE awards ending on or after October 1, 2024 must have a compliance audit conducted for that year in accordance with 2 CFR 910 Subpart F.

Submission: The compliance audit report(s) must be submitted to DOE within the earlier of 30 days after receipt of the auditor’s report(s) or nine months after the end of the audit period (Recipient’s fiscal year-end). The compliance audit report must be submitted, along with audited financial statements (if applicable), to the appropriate DOE Contracting Officer at <https://www.fedconnect.net/fedconnect/default.aspx> as well as to the DOE Office of the Chief Financial Officer (CFO) at [DOE-Audit-Submission@hq.doe.gov](mailto:DOE-Audit-Submission@hq.doe.gov).

**SF-428 Tangible Personal Property Report Forms Family**

Requirement. The SF-428 is a forms family consisting of 5 forms: the SF-428, SF-428-A, SF-428-B, SF-428-C and SF-428S. Fillable versions of the SF-428 forms areavailable at <https://www.grants.gov/forms/forms-repository/post-award-reporting-forms>. The SF-428 is the cover page and the submitter attaches the appropriate form or forms as listed on the SF-428.

* The SF-428A is the Annual report, due Oct 30th of each calendar year.
* The SF-428B is the Final Award Closeout Report, due 90 calendar days after completion or termination of the award.
* The SF-428C is the Disposition Report/Request.
* The SF-428S is the supplemental form for the SF-428-A, SF-428-B, and SF-428-C.

If at any time during the award the Recipient is provided Government-furnished property or acquires property with project funds and the award specifies that the property vests in the Federal Government (i.e. federally owned property), the Recipient must submit an annual inventory of this property to the DOE Administrator using the SF-428 and SF-428-A forms at the address on page 1 of this checklist **no later than October 30th of each calendar year**, to cover an annual reporting period ending on the preceding September 30th. The SF-428 and SF-428-B reports are required 90 calendar days after completion or termination of award to complete the closeout process.

Content of Inventory. As required on the SF-428-A and SF-428-S forms, the inventory must include a description of the property, tag number, acquisition date, and acquisition cost, if purchased with project funds. The location of property should be listed under the Comments section. The report must list all federally owned property, including property located at subcontractor’s facilities or other locations.

**SBIR/STTR Funding Agreement Certification – Life Cycle Certification**

The SBIR/STTR Funding Agreement Certification – Life Cycle Certification shall be submitted 30 days before the end of the Project Period End Date. The certification can be accessed at: <https://science.osti.gov/sbir/Awardee-Resources> .

**Attachment 1**

**RESEARCH PERFORMANCE PROGRESS REPORT**

**Standard Cover Page Data Elements and Reporting Categories**

The standard cover page data elements shown below, as well as mandatory and optional components comprise the complete research performance progress report format. Each category in the RPPR is a separate reporting component. Each component is marked to indicate if it is optional or mandatory. Mandatory components must be addressed in each report, optional are at your discretion. For Optional components, if you have nothing significant to report during the reporting period on a question or item, state “Nothing to Report,” if there are reportable items, please submit according to the instructions for each section. Onscreen instructions for completing the report are provided in the Portfolio Analysis and Management System (PAMS). Major sections of the progress report, marked here with Roman Numerals, are separate pages inside the PAMS system. Each section must be marked as complete in PAMS before the report can be submitted to DOE. For some sections, information provided in this progress report will be used to prepopulate the next progress report required for the award. Information from the Products section will prepopulate the Renewal Proposal Products section of future renewal proposals.

1. **COVER PAGE DATA ELEMENTS: All fields except Recipient Award ID Number are prepopulated by PAMS**
2. Recipient Award Identification Number (an optional identifying number issued by the recipient and used for internal processing or reporting)
3. Federal Agency and Organization Element to Which Report is Submitted (prepopulated)
4. Federal Grant or Other Identifying Number Assigned by Agency (prepopulated)
5. Project Title (prepopulated)
6. PD/PI Name, Title and Contact Information (e-mail address and phone number) (prepopulated)
7. Name of Submitting Official, Title, and Contact Information (e-mail address and phone number), if other than PD/PI (prepopulated)
8. Submission Date (prepopulated)
9. Unique Entity Identifier (prepopulated)
10. Recipient Organization (Name and Address) (prepopulated)
11. Project/Grant Period (Start Date, End Date) (prepopulated)
12. Reporting Period End Date (prepopulated)
13. Report Term or Frequency (annual, semi-annual, quarterly, final, other) (prepopulated)
14. **ACCOMPLISHMENTS: Mandatory**

**What was done? What was learned?**

The information provided in this section allows the agency to assess whether satisfactory progress has been made during the reporting period. The PI is reminded that the grantee is required to obtain prior written approval from a DOE Contracting Officer whenever there are significant changes in the project or its direction. Requests for prior written approval must be submitted to the DOE Assistance Agreement Administrator for distribution to a DOE Contracting Officer.

**a. What are the major goals and objectives of this project?**

List the major goals of the project as stated in the approved application or as approved by the agency. Describe the proposed technical approach to obtain those goals. If the application lists milestones/target dates for important activities or phases of the project, identify these dates and show actual completion dates or the percentage of completion. Generally, the goals will not change from one reporting period to the next. However, if the awarding agency approved changes to the goals during the reporting period, list the revised goals and objectives. Also explain any significant changes in approach or methods from the agency approved application or plan.

**b. What was accomplished under these goals?**

For this reporting period describe: 1) major activities; 2) specific objectives; 3) significant results or key outcomes, including major findings, developments, or conclusions (both positive and negative); and/or 4) other achievements. Include a discussion of stated goals not met. As the project progresses, the emphasis in reporting in this section should shift from reporting activities to reporting accomplishments.

**c. What opportunities for training and professional development has the project provided?**

Describe opportunities for training and professional development provided to anyone who worked on the project or anyone who was involved in the activities supported by the project. “Training” activities are those in which individuals with advanced professional skills and experience assist others in attaining greater proficiency. Training activities may include, for example, courses or one-on-one work with a mentor. “Professional development” activities result in increased knowledge or skill in one’s area of expertise and may include workshops, conferences, seminars, study groups, and individual study. Include participation in conferences, workshops, and seminars not listed under major activities.

If the project was not intended to provide training and professional development opportunities or there is nothing significant to report during this reporting period, state “Nothing to Report.”

**d. How have the results been disseminated to communities of interest?**

Describe how the results have been disseminated to communities of interest. Include any outreach activities that have been undertaken to reach members of communities who are not usually aware of these research activities, for the purpose of enhancing public understanding and increasing interest in learning and careers in science, technology, and the humanities.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

**e. What do you plan to do during the next reporting period to accomplish the goals and objectives?**

Describe briefly what you plan to do during the next reporting period to accomplish the goals and objectives.

If there are no changes to the agency-approved application or plan for this project or if this is the final report, state “Nothing to Report.”

**III. PRODUCTS: MANDATORY, if Products Exist**

**What has the project produced?**

Publications are the characteristic product of research. Agencies evaluate what the publications demonstrate about the excellence and significance of the research and the efficacy with which the results are being communicated to colleagues, potential users, and the public, not the number of publications. Many projects (though not all) develop significant products other than publications. Agencies assess and report both publications and other products to Congress, communities of interest, and the public.

List any products resulting from the project during the reporting period. Examples of products

include: publications, conference papers, and presentations; website(s) or other Internet site(s);

technologies or techniques; inventions, patent applications, and/or licenses; and other products, such as data or databases, physical collections, audio or video products, software or NetWare, models, educational aids or curricula, instruments or equipment, research material, interventions (e.g., clinical or educational), new business creation or any other public release of information related to the project.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

1. **Publications, conference papers, and presentations**

Report only the major publication(s) resulting from the work under this award. There is no restriction on the number. However, Agencies are interested in only those publications that most reflect the work under this award in the following categories:

**i. Journal publications.** List peer-reviewed articles or papers appearing in scientific, technical, or professional journals. Include any peer-reviewed publication in the periodically published proceedings of a scientific society, a conference, or the like. A publication in the proceedings of a one-time conference, not part of a series, should be reported under “Books or other non-periodical, one-time publications.”

Identify for each publication: Author(s); title; journal; volume: year; page numbers; status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no). Also see instructions under **B. Scientific/Technical Reporting** regarding the submission of accepted manuscripts and other STI as appropriate.

**ii. Books or other non-periodical, one-time publications.** Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series. Include any significant publication in the proceedings of a one-time conference or in the report of a one-time study, commission, or the like.

Identify for each one-time publication: author(s); title; editor; title of collection, if applicable; bibliographic information; year; type of publication (book, thesis or dissertation, other); status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

**iii. Other publications, conference papers and presentations**. Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication as noted above.

1. **Website(s) or other Internet site(s)**

List the URL for any Internet site(s) that disseminates the results of the research activities. A short description of each site should be provided. It is not necessary to include the publications already specified above in this section.

1. **Technologies or techniques**

Identify technologies or techniques that have resulted from the research activities. Describe the technologies or techniques and how they are being shared.

1. **Inventions, patent applications, and/or licenses**

Identify inventions, patent applications with date, and/or licenses that have resulted from the research. Submission of this information as part of an interim or final Research Performance Progress Report is not a substitute for any other invention reporting required under the terms and conditions of an award.

1. **Other products**

Identify any other significant products that were developed under this project. Describe the product and how it is being shared. Examples of other products are: Data or databases; Physical collections; Audio or video products; Software or NetWare; Models; Educational aids or curricula; Instruments or equipment; Research material (e.g., germplasm, cell lines, DNA probes, animal models); Interventions (e.g clinical, educational); new business creation; and Other.

**IV. PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS: MANDATORY**

**Who has been involved?**

Agencies need to know who has worked on the project to gauge and report performance in promoting partnerships and collaborations. The following information on participants and other collaborating organizations during this reporting period must be provided:

1. **Participants**

**What individuals have worked on the project?**

Provide the following information for: (1) Project director(s)/Principal investigator(s) (PDs/PIs);

and (2) each person who has worked, and was funded by the project, at least one person month per year on the project during the reporting period, regardless of the source of compensation (a person month equals approximately 160 hours of effort). Please note that such reporting does not constitute a formal institutional report of effort on the project, but rather is used by agency program staff to evaluate the progress of the project during a given reporting period.

Provide the name and identify the role the person played in the project. Do NOT include any other identifying information on individuals. Indicate the nearest whole person month (Calendar, Academic, Summer) that the individual worked on the project. Show the most senior role in which the person has worked on the project for any significant length of time. For example, if an undergraduate student graduates, enters graduate school, and continues to work on the project, show that person as a graduate student, preferably explaining the change in involvement. Describe how this person contributed to the project and with what funding support. If information is unchanged from a previous submission, provide the name only and indicate “no change”. Identify whether this person is collaborating internationally. Specifically is the person collaborating with an individual located in a foreign country and whether the person had traveled to the foreign country as part of that collaboration and duration of stay. The foreign country(ies) should be identified.

*Example*:

1. **Name:** Mary Smith
2. **Project Role:** Graduate Student
3. **Nearest person month worked:** 5
4. **Contribution to Project:** Ms. Smith has performed work in the area of combined error-control and constrained coding.
5. **Funding Support:** The Ford Foundation (Complete only if the funding provided from other than this award.)
6. **Collaborated with individual in foreign country:** Yes
7. **Country(ies) of foreign collaborator: China**
8. **Travelled to foreign country: Yes**
9. **If traveled to foreign country(ies), duration of stay: 5 months**
10. **Partners**

**What other organizations have been involved as partners?**

Describe partner organizations – academic institutions, other nonprofits, industrial or commercial firms, state or local governments, schools or school systems, or other organizations (foreign or domestic) – that have been involved with the project. Partner organizations may provide financial or in-kind support, supply facilities or equipment, collaborate in the research, exchange personnel, or otherwise contribute.

Provide the following information for each partnership:

1. Organization Name:

2. Location of Organization: (if foreign location list country)

3. Partner’s contribution to the project: (identify one or more)

i. Financial support;

ii. In-kind support (e.g., partner makes software, computers, equipment, etc., available to project staff);

iii. Facilities (e.g., project staff use the partner’s facilities for project activities);

iv. Collaborative research (e.g., partner’s staff work with project staff on the project);

v. Personnel exchanges (e.g., project staff and/or partner’s staff use each other’s facilities, work at each other’s site).

vi. Other

4. More detail on partner and contribution (foreign or domestic).

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

1. **Other Collaborators**

**Have other collaborators or contacts been involved?**

Some significant collaborators or contacts within the recipient’s organization may not be covered by “What people have worked on the project?” Likewise, some significant collaborators or contacts outside the recipient’s organization may not be covered under “What other organizations have been involved as partners?”

For example, describe any significant:

1. collaborations with others within the recipient’s organization, especially interdepartmental or interdisciplinary collaborations;

2. collaborations or contact with others outside the organization; and

3. collaborations or contacts with others outside the United States or with an international organization.

Identify the state(s), U.S. territory(ies), or country(ies) of collaborations or contacts.

It is likely that many recipients will have no other collaborators or contacts to report.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

**V. IMPACT: Optional (but strongly recommended)**

**What is the impact of the project? How has it contributed?**

Over the years, this base of knowledge, techniques, people, and infrastructure is drawn upon again and again for application to commercial technology and the economy, to health and safety, to cost-efficient environmental protection, to the solution of social problems, to numerous other aspects of the public welfare, and to other fields of endeavor.

The taxpaying public and its representatives deserve a periodic assessment to show them how the investments they make benefit the nation. Through this reporting format, and especially this section, recipients provide that assessment and make the case for Federal funding of research and education.

Agencies use this information to assess how their research programs: increase the body of knowledge and techniques; enlarge the pool of people trained to develop that knowledge and techniques or put it to use; and improve the physical, institutional, and information resources that enable those people to get their training and perform their functions.

This component will be used to describe ways in which the work, findings, and specific products of the project have had an impact during this reporting period. Describe distinctive contributions, major accomplishments, innovations, successes, or any change in practice or behavior that has come about as a result of the project relative to: the development of the principal discipline(s) of the project; other disciplines; the development of human resources; teaching and educational experiences; physical, institutional, and information resources that form infrastructure; technology transfer (include transfer of results to entities in government or industry, adoption of new practices, or instances where research has led to the initiation of a startup company); society beyond science and technology; or foreign countries.

1. **What was the impact on the development of the principal discipline(s) of the project?**

Describe how findings, results, and techniques that were developed or extended, or other products from the project made an impact or are likely to make an impact on the base of knowledge, theory, and research and/or pedagogical methods in the principal disciplinary field(s) of the project. Summarize using language that a lay audience can understand (*Scientific American* style). How the field or discipline is defined is not as important as covering the impact the work has had on knowledge and technique. Make the best distinction possible, for example, by using a “field” or “discipline”, if appropriate, that corresponds with a single academic department (i.e., physics rather than nuclear physics).

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

1. **What was the impact on other disciplines?**

Describe how the findings, results, or techniques that were developed or improved, or other products from the project made an impact or are likely to make an impact on other disciplines.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

1. **What was the impact on the development of human resources?**

Describe how the project made an impact or is likely to make an impact on human resource development in science, engineering, and technology. For example, how has the project: provided opportunities for research and teaching in the relevant fields; improved the performance, skills, or attitudes of members of underrepresented groups that will improve their access to or retention in research, teaching, or other related professions; developed and disseminated new educational materials; provided scholarships; or provided exposure to science and technology for practitioners, teachers, young people, or other members of the public?

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

**d. What was the impact on physical, institutional, and information resources that form infrastructure?**

Describe ways, if any, in which the project made an impact, or is likely to make an impact, on

physical, institutional, and information resources that form infrastructure, including: physical resources such as facilities, laboratories, or instruments; institutional resources (such as establishment or sustenance of societies or organizations); or information resources, electronic means for accessing such resources or for scientific communication, or the like.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

**e. What was the impact on technology transfer?**

Describe ways in which the project made an impact, or is likely to make an impact, on commercial technology or public use, including: transfer of results to entities in government or industry; instances where the research has led to the initiation of a start-up company; or adoption of new practices.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

1. **What was the impact on society beyond science and technology?**

Describe how results from the project made an impact, or are likely to make an impact, beyond the bounds of science, engineering, and the academic world on areas such as: improving public knowledge, attitudes, skills, and abilities; changing behavior, practices, decision making, policies (including regulatory policies), or social actions; or improving social, economic, civic, or environmental conditions.

If there is nothing significant to report during this reporting period, state “Nothing to Report.”

**g. What percentage of the award’s budget was spent in foreign country(ies)?**

Describe what percentage of the award’s budget was spent in foreign country(ies). If more than one foreign country is involved, identify the distribution between the foreign countries.

U.S.-based recipients should provide the percentage of the budget spent in the foreign country(ies) and/or, if applicable, the percentage of the budget obligated to foreign entities as first-tier subawards.

Recipients that are not U.S.-based should provide the percentage of the direct award received, excluding all first-tier subawards to U.S. entities. If applicable, provide separately the percentage of the budget obligated to non-U.S. entities as first-tier subawards.

**VI. CHANGES/PROBLEMS: Optional (but strongly encouraged); Carryover Amount Mandatory**

The PD/PI is reminded that the grantee is required to obtain prior written approval from a DOE Contracting Officer whenever there are significant changes in the project or its direction. Requests for prior written approval must be submitted to the DOE Assistance Agreement Administrator for distribution to a DOE Contracting Officer. If not previously reported in writing, provide the following additional information, if applicable: Changes in approach and reasons for change; Actual or anticipated problems or delays and actions or plans to resolve them; Changes that have a significant impact on expenditures; Significant changes in use or care of animals, human subjects, and/or biohazards.

1. **Changes in approach and reasons for change**

Describe any changes in approach during the reporting period and reasons for these changes. Remember that significant changes in objectives and scope require prior approval of a DOE Contracting Officer.

**b. Actual or anticipated problems or delays and actions or plans to resolve them**

Describe problems or delays encountered during the reporting period and actions or plans to resolve them.

**c. Changes that have a significant impact on expenditures**

Describe changes during the reporting period that may have a significant impact on expenditures, for example, delays in hiring staff or favorable developments that enable meeting objectives at less cost than anticipated.

**d. Significant changes in use or care of human subjects, vertebrate animals, biohazards, and/or select agents**

Describe significant deviations, unexpected outcomes, or changes in approved protocols for the use or care of human subjects, vertebrate animals, biohazards and/or select agents during the reporting period. If required, were these changes approved by the applicable institution committee and reported to the agency? Also specify the applicable Institutional Review Board/Institutional Animal Care and Use Committee approval dates.

**e. Change of primary performance site location from that originally proposed**

Identify any change to the primary performance site location identified in the proposal, as originally submitted.

1. **Carryover Amount**

Provide an estimate of the carryover amount expected at the reporting period end date.

**VII. DEMOGRACHIC INFORMATION: Mandatory (providing email addresses)**

Provide an email address for each participant identified in Section IV.PARTICIPANTS & OTHER COLLABORATING ORGANIZATIONS, above. PAMS will then send each participant not registered in PAMS an email inviting the participant to register and complete his/her PAMS person profile so that demographic information can be collected. Entering demographic information is optional for participants. Demographics are collected for a variety of purposes, including the following:

• to gauge whether our programs and other opportunities are fairly reaching and benefiting everyone regardless of demographic category;

• to ensure that those in under-represented groups have the same knowledge of and access to programs, meetings, vacancies, and other research and educational opportunities as everyone else;

• to gauge and report performance in promoting partnerships and collaborations;

• to assess involvement of international investigators or students in work we support;

• to track the evolution of changing science, technology, engineering and mathematics (STEM) fields at different points in the pipeline (e.g., medicine and law demographics have recently changed dramatically);

• to raise investigator and agency staff awareness of the involvement of under-represented groups in research;

• to encourage the development of creative approaches for tapping into the full spectrum of talent of the STEM workforce;

• to respond to external requests for data of this nature from a variety of sources, including the National Academies, Congress, etc.; and

• to respond to legislatively-required analysis of workforce dynamics. Legislation requires at least one agency to routinely estimate scientific workforce needs. This analysis is accomplished through reviewing demographic data submitted for the existing workforce.

Demographic data (i.e., gender, ethnicity, race, and disability status) is provided directly by significant contributors with the understanding that submission of such data is voluntary. There are no adverse consequences if the data are not provided. Confidentiality of demographic data is in accordance with agency’s policies and practices for complying with the requirements of the Privacy Act.

Gender: Male

Female

Do not wish to provide

Ethnicity: Hispanic or Latina/o

Not-Hispanic or not-Latina/o

Do not wish to provide

Race (select one or more): American Indian or Alaska Native

Asian

Black or African American

Native Hawaiian or other Pacific Islander

White

Do not wish to provide

Disability Status:

Yes (check yes if any of the following apply to you)

• Deaf or serious difficulty hearing

• Blind or serious difficulty seeing even when wearing glasses

• Serious difficulty walking or climbing stairs

• Other serious disability related to a physical, mental, or emotional condition.

No

Do not wish to provide

This measure is designed as a binary measure; it encompasses all self-reported disabilities. Please do not use it to report the number of individuals who have different types of disabilities (e.g., hearing impairments).

Demographic data is only disclosed to the person providing the data: DOE can only access the data in aggregate form.

**VIII. SPECIAL REPORTING REQUIREMENTS: Mandatory**

Respond to any special reporting requirements specified in the award terms and conditions, as well as any award specific reporting requirements. **If applicable, please include the NDAA of 2019 Annual Technical or Business Assistance Report with the appropriate Research Performance Progress Report (RPPR) as required in its respective special instruction (5.l.).**