##### WETO.1.3.X.40X – Project Title

|  |  |
| --- | --- |
| **Project General Information** | |
| **Current Year CPS Agreement #:** *Auto-Filled in EERE SharePoint* | **Prior Year CPS Agreement #:** *Auto-Filled in EERE SharePoint* |
| **Work Category:** Choose an item. | **FOA Number:** Click here to enter text. |
| **Was this project Merit Reviewed? :** Choose an item. | **Merit Review Year:** Choose an item. |
| **If no Merit Review, provide Exemption Criteria:** Choose an item. | |
| **Project Start:** Click here to enter a date. | **Planned Project End Date:** Click here to enter a date. |

|  |  |
| --- | --- |
| **Project Ownership and Performers** | |
| **EERE Project Lead Information** | **Lab Performer Information** |
| **Name:** Choose an item. | **Name:** Last Name, First Name |

**Project Overview**

*This field contains high-level information regarding the project. It captures the issue, major R&D challenges, and any topic that is needed to provide the reader with a complete understanding of the project and how it supports the Office, Program, and Activity goals. If this is a multi-performer project, this section should include a description of each performer's role and responsibility.*

|  |
| --- |
| Enter Project Overview text here. |

**Project Objectives**

*This field contains the project-specific goals, objectives, and expected outcomes. For competitive awards, this field should include the goals, objectives and anticipated results that are determined from the award documentations.*

|  |
| --- |
| Enter Project Objectives text here. |

**Modality Summary**

*Provide the percentage amount for each TRL and modality level in the EERE Modality Matrix below. The percentage should equal* ***100%****. This matrix refers to the 9 types of project funding profiles/modes for research technology readiness levels and other program funding profiles in taking projects from Basic Research to Market Deployment.*

| **Modality #** | **Modality(s)** | | **Weight (%)** |
| --- | --- | --- | --- |
| 1 | Early-Stage R&D (TRL 1-3) | | |
| TRL 1 | Basic principles observed and reported: Scientific problem or phenomenon identified. Essential characteristics and behaviors of systems and architectures are identified using mathematical formulations or algorithms. The observation of basic scientific principles or phenomena has been validated through peer-reviewed research. Technology is ready to transition from scientific research to applied research. | 0% |
| TRL 2 | Technology concept and/or application formulated: Applied research activity. Theory and scientific principles are focused on specific application areas to define the concept. Characteristics of the application are described. Analytical tools are developed for simulation or analysis of the application. | 0% |
| TRL 3 | Analytical and experimental critical function and/or characteristic proof of concept: Proof of concept validation has been achieved at this level. Experimental research and development is initiated with analytical and laboratory studies. System/integrated process requirements for the overall system application are well known. Demonstration of technical feasibility using immature prototype implementations are exercised with representative interface inputs to include electrical, mechanical, or controlling elements to validate predictions. | 0% |
| 2 | Mid-Stage RD&D (TRL 4-6) | | |
| TRL 4 | Component and/or process validation in laboratory environment- Alpha prototype (component): Standalone prototyping implementation and testing in laboratory environment demonstrates the concept. Integration and testing of component technology elements are sufficient to validate feasibility. | 0% |
| TRL 5 | Component and/or process validation in relevant environment- Beta prototype (component): Thorough prototype testing of the component/process in relevant environment to the end user is performed. Basic technology elements are integrated with reasonably realistic supporting elements based on available technologies. Prototyping implementations conform to the target environment and interfaces. | 0% |
| TRL 6 | System/process model or prototype demonstration in a relevant environment- Beta prototype (system): Prototyping implementations are partially integrated with existing systems. Engineering feasibility fully demonstrated in actual or high fidelity system applications in an environment relevant to the end user. | 0% |
| 3 | Late-Stage RD&D (TRL 7-8) | | |
| TRL 7 | System/process prototype demonstration in an operational environment- Integrated pilot (system): System prototyping demonstration in operational environment. System is at or near full scale (pilot or engineering scale) of the operational system, with most functions available for demonstration and test. The system, component, or process is integrated with collateral and ancillary systems in a near production quality prototype. | 0% |
| TRL 8 | Actual system/process completed and qualified through test and demonstration- Pre-commercial demonstration: End of system development. Full-scale system is fully integrated into operational environment with fully operational hardware and software systems. All functionality is tested in simulated and operational scenarios with demonstrated achievement of end-user specifications. Technology is ready to move from development to commercialization. | 0% |
| 4 | Testing, Data Collection and Data Dissemination | | 0% |
| 5 | Strategic, Market and Techno-Economic Analysis | | 0% |
| 6 | Removing Deployment Barriers | | 0% |
| 7 | Technical Management | | 0% |
| 8 | Major Subcontracting | | 0% |
| 9 | Facility Costs | | 0% |
| **Project Total** | | | **100%** |

**Related Prime Awardee Projects**

*This type of project is* ***RARELY*** *used. They originate from FOAs. Related projects may be related in scope but* ***DO NOT*** *share the same Project Titles and Objectives. While the scope of the Labs might be similar, it is understood that the tasks are likely to be less interdependent than those seen in Multi-Performer Projects.*

|  |  |
| --- | --- |
| **Office:** Choose an item. | **Lab:** Choose an item. |
| **Project Title** *(Can search for words found in title)***:** Click here to enter text. | |

**Multi-Performer Projects**

*When two or more Labs are working in partnership with each other to achieve a common objective/goal, their AOP Projects are considered Multi-Performer Projects. The source for these projects typically come from Directly Funded AOPs. The Labs share the same AOP Project Title and overall objective. However, the Lab tasks are distinct from each other yet are interdependent. Thus, the performances of these Labs can affect each other (i.e. a delay in a Lab’s project can impact the others) and the overall goal.*

|  |  |
| --- | --- |
| **Office:** Choose an item. | **Lab:** Choose an item. |
| **Project Title** *(Can search for words found in title)***:** Click here to enter text. | |
|  | |
| **Office:** Choose an item. | **Lab:** Choose an item. |
| **Project Title** *(Can search for words found in title)***:** Click here to enter text. | |
|  | |
| **Office:** Choose an item. | **Lab:** Choose an item. |
| **Project Title** *(Can search for words found in title)***:** Click here to enter text. | |

**Milestones**

*EERE’s guidance is for each project to have one (1) Major Annual Milestone per year and Up to three (3) Progress Measures per year (envisioned to be quarterly during quarters where there is no Major Annual Milestone due).*

| **Milestone Name/Description** | **End Date** | **Type** |
| --- | --- | --- |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |
| Enter Milestone Name & Description Here. | Enter a date. | Choose an item. |

**Go/No-Go Decisions**

*EERE’s guidance is for each project to have one (1) Go-No Go Milestone every 12-18 months.*

| **Name** | **Description** | **Criteria** | **Date** |
| --- | --- | --- | --- |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Enter a date. |
| Click here to enter text. | Click here to enter text. | Click here to enter text. | Enter a date. |

**Risks**

*The purpose of this page is to identify and document any risks that are associated with the AOP project.*

| **Name** | **Status** | **Target Completion Date** | **Severity** | **Response** | **Description** |
| --- | --- | --- | --- | --- | --- |
| Click here to enter text. | Choose an item. | Click here to enter a date. | Choose an item. | Choose an item. | Click here to enter text. |
| Click here to enter text. | Choose an item. | Click here to enter a date. | Choose an item. | Choose an item. | Click here to enter text. |
| Click here to enter text. | Choose an item. | Click here to enter a date. | Choose an item. | Choose an item. | Click here to enter text. |

**Project Impacts**

*The purpose of this section is to identify and document how this newly planned/created project will impact the target audiences.*

|  |
| --- |
| **Deliverable/Product or "output" Description:**  Click here to enter text. |
| **Audience/Customer:**  Click here to enter text. |
| **Audience Use: (Outcome, or Impact, what is the intended use of "output" by Audience/Customer)**  Click here to enter text. |
| **Communications/Outreach Strategy (to reach target audience):**  Click here to enter text. |
| **Does this project involve significant industry engagement?**  *(Significant industry engagement is defined as any direct contact, input, or collaboration with)* |
| **Description of Engagement:**  Click here to enter text. |

**Tasks**

*The purpose of this page is to identify and document any tasks that are associated with the AOP project. The primary reason tasks are included in the AOP Tool is for EERE Project Leads to determine that the task can result in major changes in deadlines or schedules. Note: Planned Cost amounts provided in this AOP write up are initial estimates and final cost plans will be submitted into the EERE AOP SharePoint site.*

| **Name** | **Description** | **FY19 Planned Cost** | **FY20 Planned Cost** | **FY21 Planned Cost** |
| --- | --- | --- | --- | --- |
| Click here to enter text. | Click here to enter text. | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | $Enter Cost | $Enter Cost | $Enter Cost |

**Subcontractors**

*The purpose of this page is to identify and document any subcontractors that are associated with the AOP project.* *Note: Planned Cost amounts provided in this AOP write up are initial estimates and final cost plans will be submitted into the EERE AOP SharePoint site.*

| **Name** | **Responsibility** | **Sub**  **Type** | **Start**  **Date** | **End**  **Date** | **FY19 Planned Cost** | **FY20 Planned Cost** | **FY21 Planned Cost** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Click here to enter text. | Click here to enter text. | Choose an item. | Choose a date | Choose a date | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | Choose an item. | Choose a date | Choose a date | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | Choose an item. | Choose a date | Choose a date | $Enter Cost | $Enter Cost | $Enter Cost |
| Click here to enter text. | Click here to enter text. | Choose an item. | Choose a date | Choose a date | $Enter Cost | $Enter Cost | $Enter Cost |

**Travel**

*The purpose of this page is to gather and calculate all the travel expenses associated with the AOP Project.* *Note: Planned Cost amounts provided in this AOP write up are initial estimates and final cost plans will be submitted into the EERE AOP SharePoint site.*

| **Month** | **FY** | **Travel Type** | **Destination** | **Purpose** | **Estimated Cost** |
| --- | --- | --- | --- | --- | --- |
| Enter Month | Enter FY | Choose an item. | Click here to enter text. | Click here to enter text. | $Enter Cost |
| Enter Month | Enter FY | Choose an item. | Click here to enter text. | Click here to enter text. | $Enter Cost |
| Enter Month | Enter FY | Choose an item. | Click here to enter text. | Click here to enter text. | $Enter Cost |
| Enter Month | Enter FY | Choose an item. | Click here to enter text. | Click here to enter text. | $Enter Cost |

**Financials**

*The purpose of this page is to gather and calculate all the costs associated with the AOP Project. A majority of this section will be populated by the project coordinator team based on information provided in the completed OCFO Pricing Tool or extracted from EPP Plans. Please complete the OCFO pricing tool or EPP Plans in accordance with the AOP development schedule. Note: Planned Cost amounts provided in this AOP write up are initial estimates and final cost plans will be submitted into the EERE AOP SharePoint site.*

**Project Financial Details**

| **FY 2019**  **Budget Authority (Planned)** | **FY 2020 Budget Authority (Planned)** | **FY 2021 Budget Authority (Planned)** |
| --- | --- | --- |
| $ 31,250 | $ Enter BA | $ Enter BA |

**Project Cost Plan**

*(Optional: final cost plans will be submitted into the EERE AOP SharePoint site)*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **FY19** | | | | | | | | | | | |
| **OCT** | **NOV** | **DEC** | **JAN** | **FEB** | **MAR** | **APR** | **MAY** | **JUN** | **JUL** | **AUG** | **SEP** |
| $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost | $Enter Cost |

**Project Cost Breakdown**

*(Optional: final cost plans will be submitted into the EERE AOP SharePoint site)*

| **Category** | **FY 2019 Planned Cost** |
| --- | --- |
| In-House Labor | $Enter Cost |
| Subcontracts | $Enter Cost |
| Travel | $Enter Cost |
| Capital Equipment | $Enter Cost |
| Supplies | $Enter Cost |
| Other | $Enter Cost |
| **Total** | **$Enter Cost** |