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The purpose of this modification is to:

 Fully fund this task order by providing incremental funding as follows: Obligated Amount: \$377,815.00; RFPA: RES-07-085/FFS: RES-C09-603; B& R Number: 96015171103; Job Code: N6387; BOC: 252A; Appropriation Number: 31X0200.960

Funding Changes as a result of this modification:

Task Order Ceiling Total:\$977,815.00Previous Obligated Amount:\$600,000.00Obligation Amount per this Mod:\$377,815.00

Revised Obligated Total/Ceiling:\$977.815.00Amount Available for Obligation:\$0.0

2. In the Statement of Work, delete Task 1, Task 2, Task 2.1, and Task 2.2 in "Section III. Scope of Work", and replace with the following:

III. SCOPE OF WORK

Task 1. The contractor shall complete and quality assure the AP1000 Input Deck for TRACE based on existing RELAP5/MOD3 and TRACE input decks and perform the following plant transient analyses:

1. 5 LBLOCAs:

a. Double-ended guillotine break (DEGB) in cold leg (CL) with CD (discharge coef.) = 0.8, 1.0, and 1.2

b. Split break in cold leg with CD =1.0

c. CL DEGB with IRWST (In-containment Refueling Water Storage Tank) temperature high

2. 1 MSLB (main steam line break)

3. 1 SGTR (steam generator tube rupture)

4. 3 SBLOCAs with design basis assumptions:

a. DE DVI (direct vessel injection) line break with failure of one ADS4 valve in nonpressurizer loop

b. DE DVI line break with failure of one ADS4 valve in pressurizer loop

c. 2-inch CL break with failure of one ADS4 valve in non-pressurizer loop

Estimated Level of Effort: 9 staff months

Task 2. The contractor shall perform TRACE assessments necessary to qualify the code for AP1000. Documentation for the assessments shall be provided as described in Section IV of this statement of work.

- Task 2.1 Starting with the RELAP5 input deck, calculation notebook, and the preliminary TRACE input deck, for each of the seven APEX-AP1000 tests listed below, the contractor shall perform an assessment calculation and analysis with TRACE.
 - 1. NRC-AP1000-1 Double ended guillotine break of direct vessel injection (DVI)-1 with failure of ADS1-3
 - 2. NRC-AP1000-3 Double ended guillotine break of DVI-1 with failure of 2/4 ADS4 valves in the pressurizer loop
 - 3. NRC-AP1000-4 One inch break at the bottom of cold leg 4 with degraded sump
 - 4. NRC-AP1000-5 Double ended guillotine break of DVI-1 with failure of 2/4 ADS4 valves in non-pressurizer loop
 - 5. NRC-AP1000-6 Two inch break at bottom of cold leg 4 with failure of 2/4 ADS4 valves on non-pressurizer loop
 - 6. NRC-AP1000-11 No reserve test, initial pressure = 100 psia, containment backpressure =25 psia, core power =1 MW
 - 7. NRC-AP1000-8 Station blackout, fail 50% ADS1-4

The contractor shall also perform the following counterpart AP1000 plant calculations/analyses with TRACE.

- 1. DE DVI line break with failure of ADS stages 1-3 (NRC-AP1000-1)
- 2. DE DVI line break with failure of two ADS4 valves in pressurizer loop (NRC-AP1000-3)
- 3. DE DVI line break with failure of two ADS4 valves in non-pressurizer loop (NRC-AP1000-5)
- 4. 2-inch CL break with failure of two ADS4 valves in non-pressurizer loop (NRC- AP1000-6)

Estimated level of effort: 4.5 staff months

- Task 2.2 Starting with the RELAP5 input deck, calculation notebook, and the preliminary TRACE input deck for ROSA-IV, for each of the five ROSA AP600 tests listed below, the contractor shall perform an assessment calculation and analysis with TRACE.
 - 1. AP-CL-03: 1-inch cold leg break
 - 2. AP-DVI-1: Double ended guillotine break of DVI-1
 - 3. AP-BO-01: Station blackout
 - 4. AP-CL-05: 1-inch cold leg break with failure of ADS 1-3
 - 5. AP-CL-09: 1-inch cold leg break with makeup pump, no core makeup tanks (CMTs), 1 accumulator, 50% ADS1-4, 1 in-containment refueling water storage tank line.

The contractor shall also perform the following counterpart AP1000 plant calculation/analysis with TRACE.

1. Station Blackout (ROSA/AP600 Test AP-BO-01)

Estimated level of effort: 2.5 staff months

All other terms and conditions remain the same