

# **Scope of Work**

**for**

**[Containment Filtered Venting System  
Consulting Service for Design Issues]**

## **1. Scope of Work**

The scope of work to perform these services is described in the following tasks. For the exact schedule for each tasks, see [table 1] below.

### **TASK 1. Evaluation of the condensation induced water hammer prevention design**

- Contractor will provide methodology and reference materials applicable to prevent the condensation induced water hammer in the inlet/outlet piping design.

### **TASK 2. Two CIVs outside Containment meeting the requirements of ANSI/ANS 56.2**

- Contractor will provide the practicable methodology and reference materials for the two CIVs located outside of Containment Building to meet the requirements of ANSI/ANS 56.2, section 3.6.5 (Detect and Terminate the valve leakage). The practicable methodology will include consideration of the congested space of the mechanical penetration room which is in use for operations and maintenance activities. KEPSCO E&C will provide necessary information for the mechanical penetration room.

### **TASK 3. Design criteria and reference materials for discharge vent stack**

- Contractor will provide the design criteria and procedure for the design of the discharge vent stack with reference materials for stack elevation, sizing and characteristics.

### **TASK 4. Design basis and methodology for shielding design of the outdoor CFVS piping**

- Contractor will provide the design basis and methodology for the shielding design of the outdoor CFVS piping considering it will be used in a severe accident, of which Korea does not have regulations/industrial standards.

### **TASK 5. Design basis and methodology for sizing of filter inlet/outlet piping**

- Contractor will provide the design basis and methodology for the sizing of the filter inlet/outlet piping.

### **Kickoff Meeting**

- Contractor will host a kick-off meeting in Contractor's Chicago office after the contract is signed. Contractor will prepare the meeting minutes.

### **Incorporation of KEC Comments and Issuance of Final Report**

- Contractor will resolve KEPCO E&C comments from their review of the draft design report, and will revise the design report to incorporate any KEPCO E&C comments. The final design report will be issued to KEPCO E&C in accordance with the schedule

## **2. Deliverables**





The deliverables for this scope of work are:

- Presentation materials and meeting minutes for kick off meeting
- Draft Report for Tasks 1-5.
- Final Design Report for Task 1-5. The final report will incorporate KEPCO E&C comments on the draft report.

The native files will be submitted with the final reports.

## **3. Consulting Schedule**

[Table 1] Consulting Schedule

Activity	Schedule								
	Weeks after Contract								
	1	2	3	4	5	6	7	8	9
Kick-off Meeting									
Task 1-5									
Draft Report									
KEC Comments									
Final Reports								