

Notice No.	KC14-57	Notice Date	2014.11.21
Contract Title	Consulting Service on Jet Impingement Analysis Considering Potential Nonconservatism of ANSI/ANS 58.2 Jet Modeling for APR1400 NRC DC		
Contract Overview	<p>The purpose of this project is to analysis the jet impingement load considering potential nonconservatism of ANSI/ANS 58.2 jet modeling for APR1400 NRC DC. The analysis results shall meet the requirements of the Appendix A of Design-Specific Review Standard (DSRS) for mPower iPWR Design, Rev. 0. The scope of services to be performed by the Contractor under this agreement includes the followings.</p> <p>1) Phase I:</p> <ul style="list-style-type: none"> • CFD Analysis, considering jet impingement w/o amplification • CFD Analysis considering the Shockwave • Licensing review • Independent Peer Review <p>2) Phase II:</p> <ul style="list-style-type: none"> • Pressure/Impulse CCPS Calculation (unconfined space) • Pressure/Impulse BlastX Calculation (confined space), Calculation • Licensing Review, Meeting • Meeting to assess results and need for Phase III <p>3) Phase III:</p> <ul style="list-style-type: none"> • CFD Analysis (jet impingement with amplification) 		
Estimated Value	USD 1,039,000	Type of Contract	Sole Source Contract
Reason(s) for the Sole Sourcing	<p>Jet impingement analysis considering the requirement of Appendix A of DSRS has not been performed in the APR1400 design. Experienced consultant agency with experts is necessary to solve the potential nonconservatism problem of jet model in ANSI/ANS 58.2.</p> <p>Bechtel has been experienced with jet problem in the design of mPOWER. Bechtel has a team specialized for the various CFD analyses including jet phenomenon. Therefore it is expected that the outputs will be highly credible.</p> <p>Bechtel has plenty of experienced engineers who are capable of providing technical consultation services for jet impingement analysis within the schedule and cost that meet the requirements of KEPCO E&C.</p> <p>Therefore, Bechtel is selected as a consulting company for jet impingement analysis for APR1400 NRC DC.</p>		
Company to be Contracted	Bechtel		
Point of Contract	Name	Wonsang Jeong	Dept. Nuclear Engineering
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Attachment			