

# Response to Additional Information

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**RAI No : 313-8366**  
**SRP Section : SRP 19**  
**Application Section : 19.1**  
**Question No. :19-19**

# Response to Additional Information

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## PRESENTERS

- JaeGab Kim : PRA Level 2
- TaeHee Hwang : PRA Level 2
- KagSu Jang : Severe Accident

# Response to Additional Information

## Contents

1. **Accident Sequence for analysis**
  - STC10 : NoCF
  - STC11 : BMT
  - STC16 : Late CF
  - Q03 : To estimate containment over-pressurization
2. **Specific Feature of APR1400**
  - RC, CFS, ECSBS, IRWST, HVT
3. **Question and Answer**
4. **Conclusion**

# Response to Additional Information

## 1. Accident Sequence for analysis cases – STC10

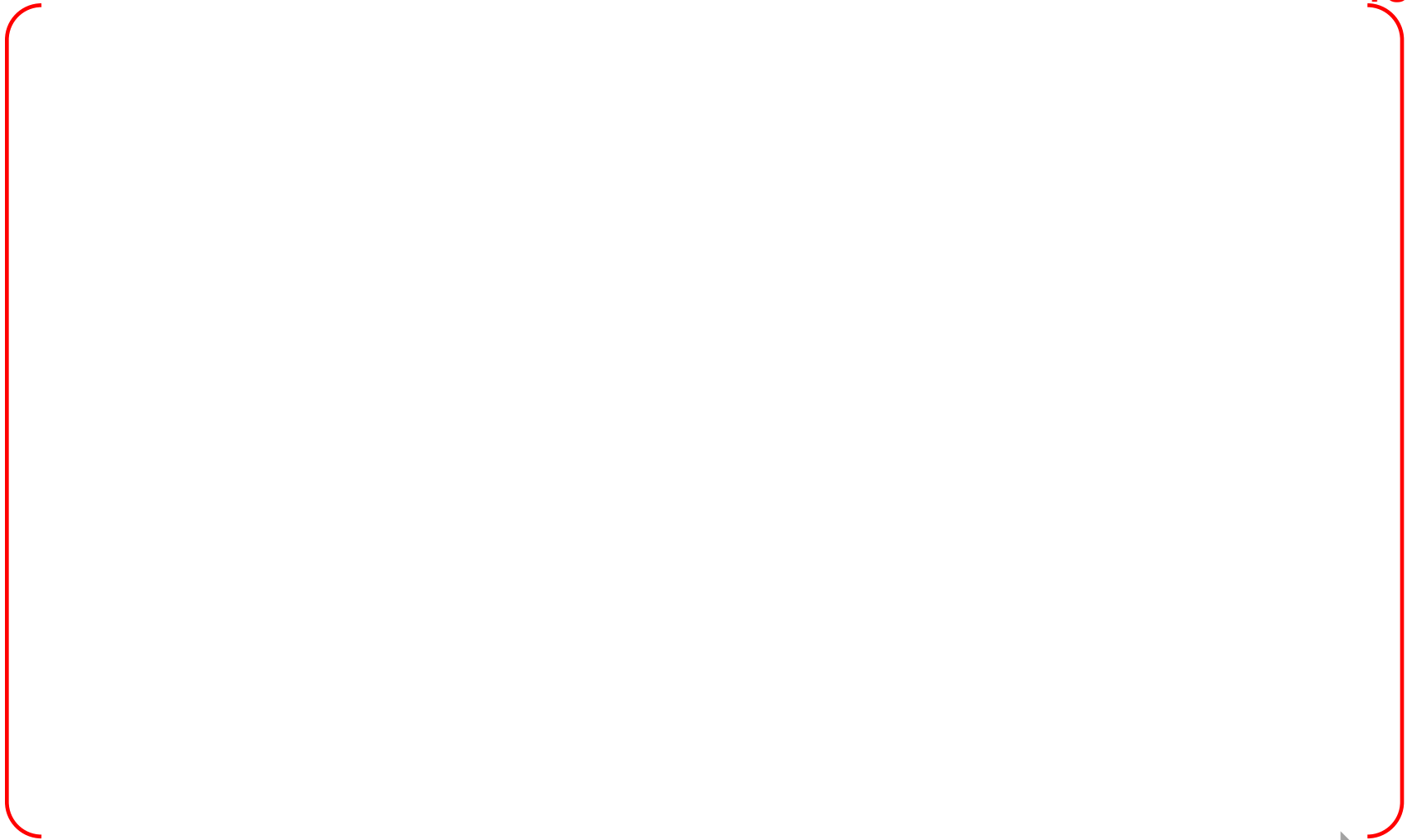
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## 1. Accident Sequence for analysis cases – STC11

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## 1. Accident Sequence for analysis cases – STC16

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## 1. Accident Sequence for analysis cases – Q03

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## 1. Summary of Analysis Cases

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## 2. Specific Features of APR1400

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## 2. Specific Features of APR1400

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## 2. Specific Features of APR1400

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## 2. Specific Features of APR1400

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## 3. Question a : The basis for decay power

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3. Question b: Assumption for FW injection coastdown and MSIV closure timing TS

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## 3. Question c : RCP seal leakage/failure flow paths

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3. Question d : The number of POSRVs opened and opening timing

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3. Question e : RCS pressurization stop from 3640s to 4370s

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3. Question e : For RCS pressurization stop from 3640s to 4370s

TS



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3. Question f : The basis for not including SIT injection

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3. Question f : The basis for not including SIT injection

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3. Question g : SG pressure to start trending down after 1.0E5s

TS



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3. Question g : For SG pressure to start trending down after 1.0E5s

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3. Question h : The basis for reintroduction of water into the SGs

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3. Question h : The basis for reintroduction of water into the SGs

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3. Question i : The basis for reintroduction of water into the SGs

TS



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3. Question i : The basis for reintroduction of water into the SGs

TS



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3. Question j : For HMS (PARs and Igniters) operating conditions

TS



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3. Question j : For HMS (PARs and Ingiters) operating conditions

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3. Question k : The number of 3-way v/v opened and opening timing

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3. Question k : The number of 3-way v/v opened and opening timing

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# Response to Additional Information

3. Question k : The number of 3-way v/v opened and opening timing

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3. Question I : For overlying water in the cavity

TS



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3. Question I : For overlying water in the cavity

TS



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3. Question m : For overlying water in the cavity

TS





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3. Question n : The basis for water level below bottom of cavity

TS



# Response to Additional Information

3. Question o : The basis for water level below bottom of cavity

TS



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3. Question p : The basis for assumption of No PARs

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3. Question q : The basis for not modeling the effect of H2 burn

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## 3. Question r : The basis for not modeling the effect of HPME

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## 3. Question s : The basis for not modeling the effect of HotLeg Rupture

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3. Question t : The basis for core debris exiting the vessel

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3. Question t : The basis for core debris exiting the vessel

TS





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3. Question t : The basis for core debris exiting the vessel

TS



# Response to Additional Information

3. Question t : The basis for core debris exiting the vessel

TS



# Response to Additional Information

3. Question t : The basis for core debris exiting the vessel


TS



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3. Question u : The basis for CO2 being produced

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# Response to Additional Information

3. Question u : The basis for CO2 being produced

TS



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## 4. Conclusion

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**THANK YOU!**