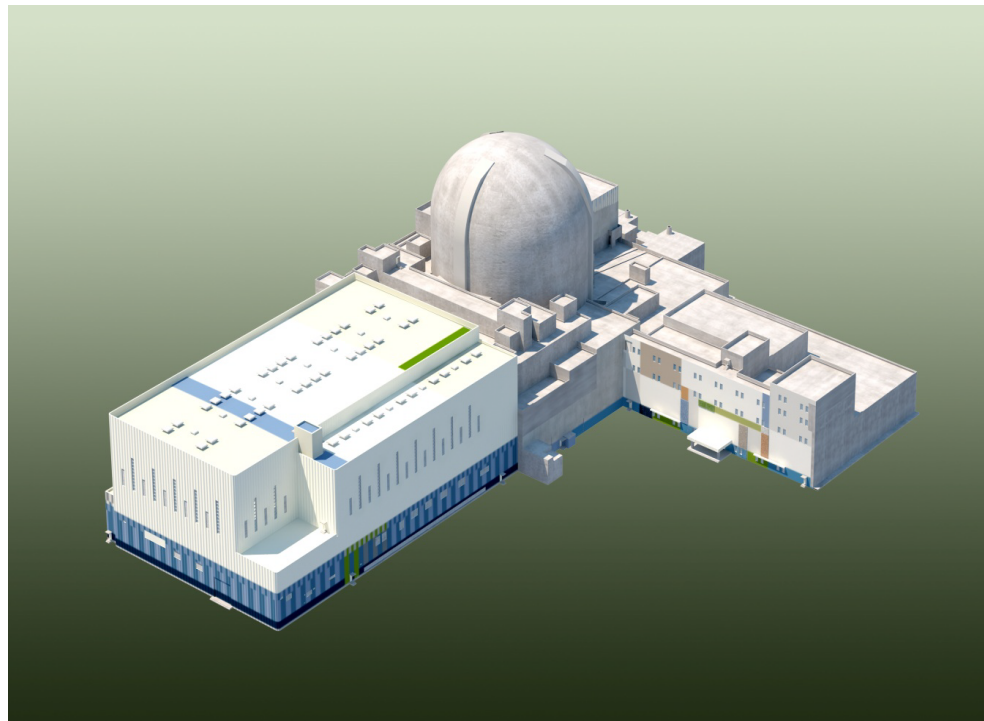


APR1400 Instrumentation & Controls Design (Man-Machine Interface System)



KEPCO/KHNP
April 20~21 2016

Contents

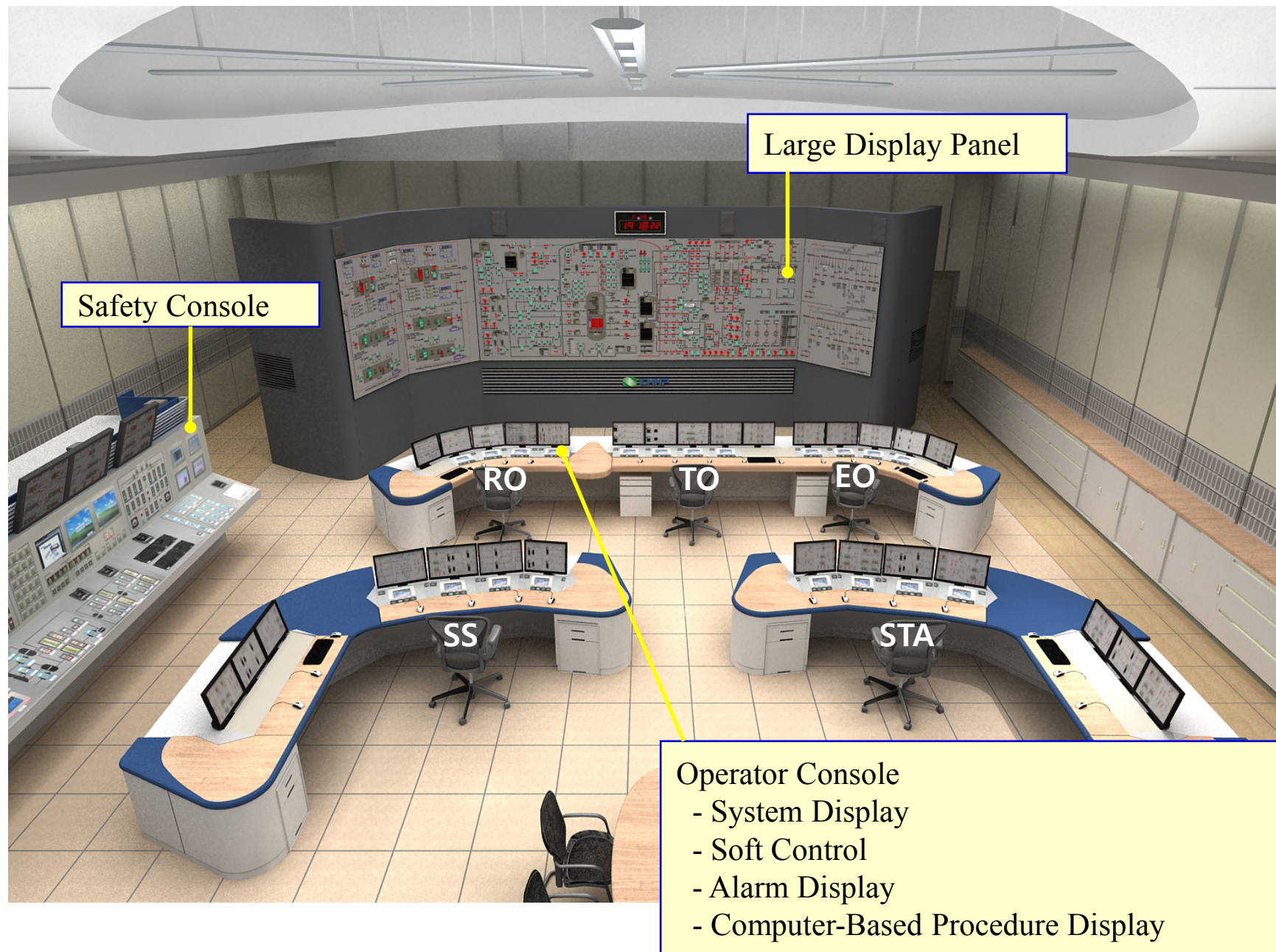
- Human-System Interface design process
- APR1400 Basic HSI
 - APR1400 Main Control Room
 - Large Display Panel
 - Safety Console
 - Operator Console
 - System Display
 - Soft Control
 - Alarm Display
 - Computer-Based Procedure Display
- Summary

Human-System Interface(HSI) design process

- The APR1400 Basic HSI is derived from the Basic HSI of the APR1400 predecessor design, Shin Kori Nuclear power plant units 3 and 4.
- APR1400 Basic HSI is applied to development of APR1400 HSI system and HSI facilities.

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APR1400 Main Control Room (MCR)



Large Display Panel (LDP)

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Safety Console

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Operator Console

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System Displays

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Soft Control

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Alarm Displays

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Computer-Based Procedure Displays

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ACRS Meeting (Apr.20-21, 2016)

Summary

- The HSI design process and major HSI system are introduced.
- The APR1400 Basic HSI is derived from the HSI design of the SKN 3 which is successfully developed and verified.
 - Operating license of SKN 3 was issued on October 2015 and SKN 3 was connected to the grid on January 2016.
- The detail HSI design of SKN 3 can be referred to COL applicant who will develop detail HSI design of APR1400.

