



The Future of HMI?



Next Generation HMI

- Concepts
 - “Glass Cockpit”
 - This Generation Interface
 - I-Phone
 - Multi Touch
 - Tactile Touch
 - Computer Directed Procedures



Next Generation HMI

- Old and New Paradigms





Next Generation HMI

- Old and New Paradigms





Glass Cockpit

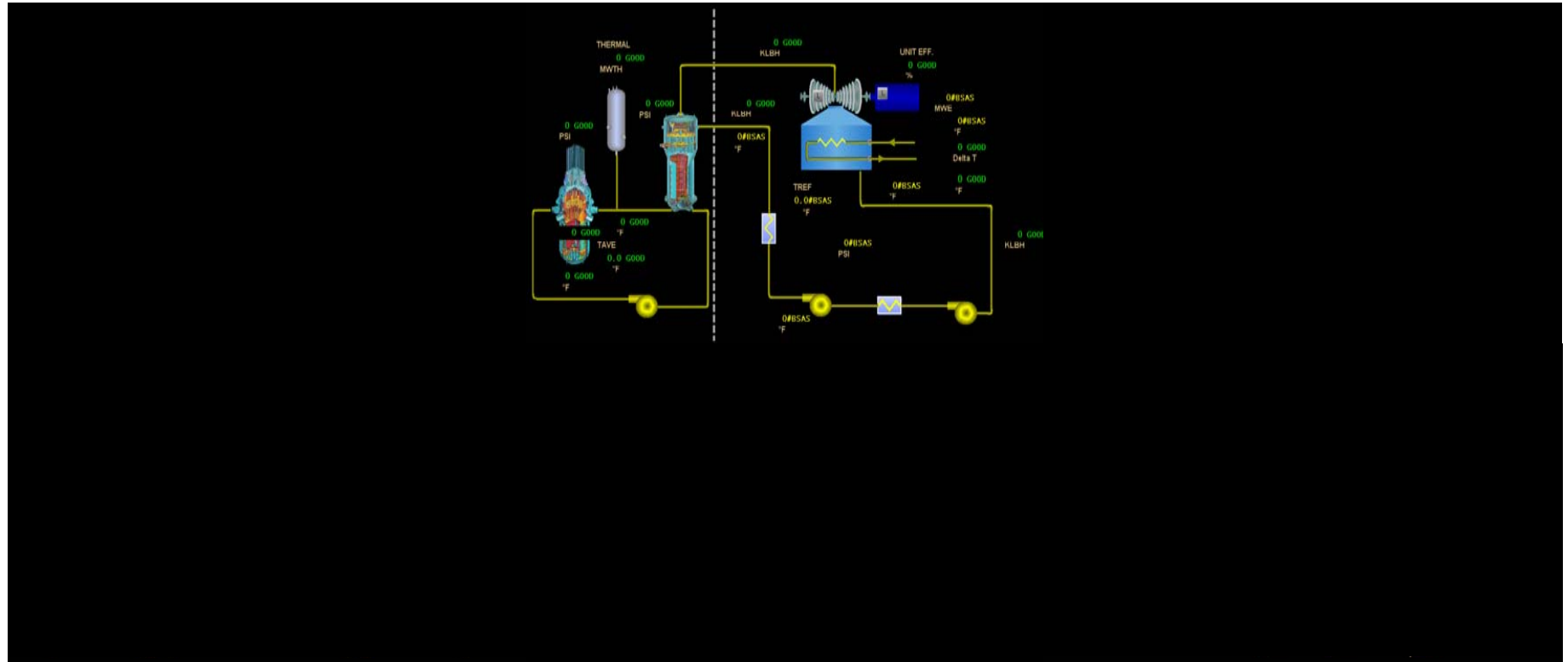
- Plant Overview
- “Dark Board” Concept
 - Always visible Plant Overview
 - Most critical secondary side status on right of overview screen
 - Most critical primary side status on right of overview screen

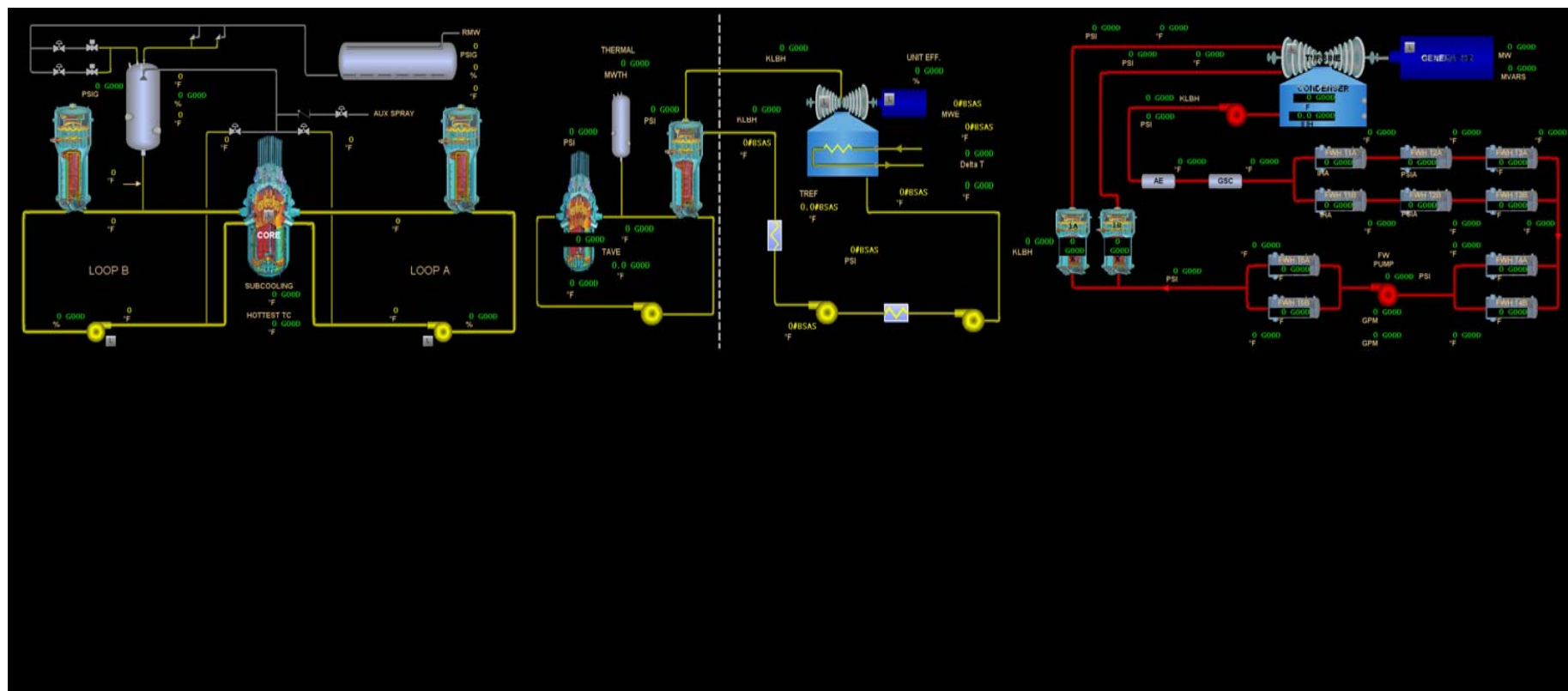


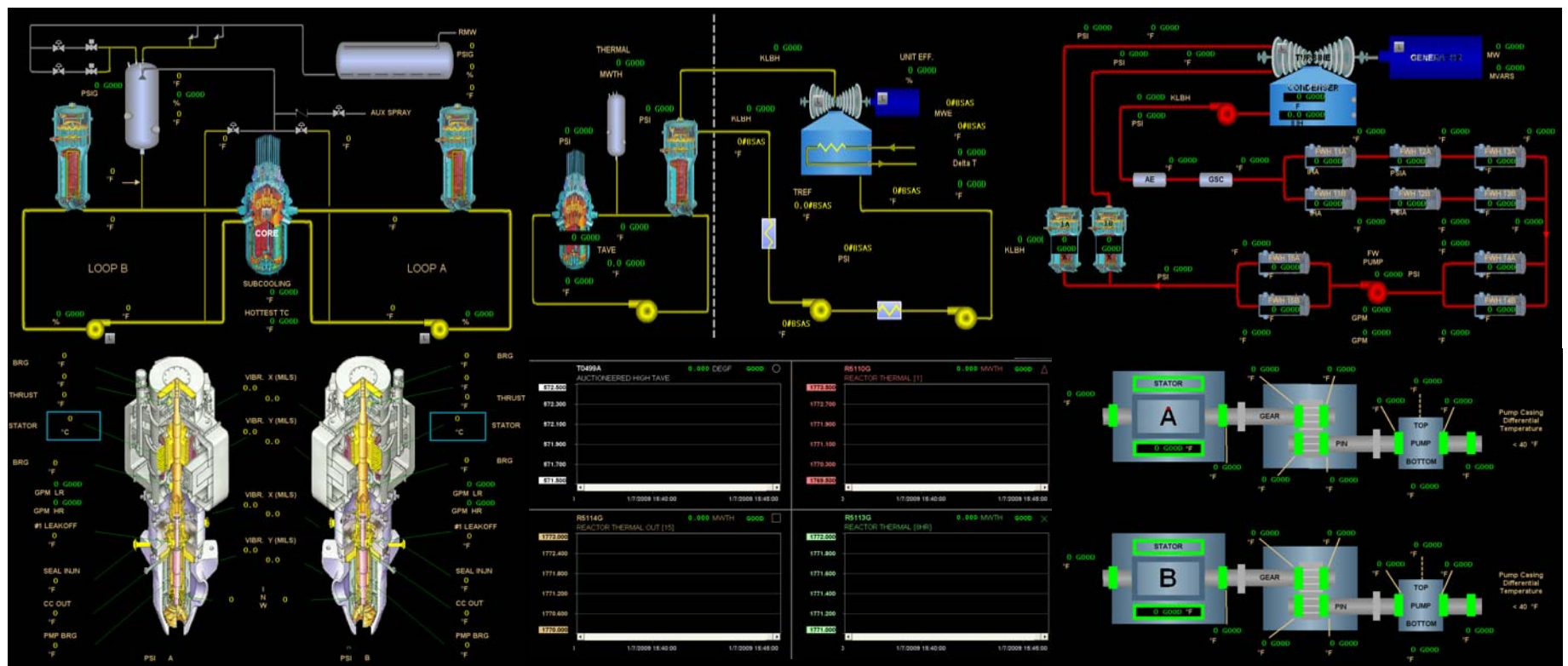
Overhead “Wings”

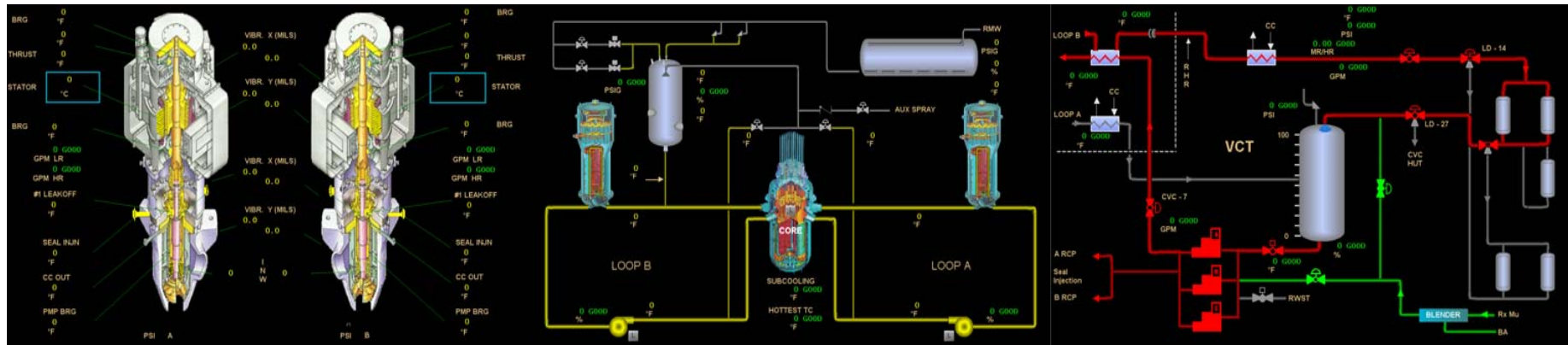
- Left side “wing” displays dedicated to Primary side information
- Right side “wing” displays dedicated to Secondary side information
- One dedicated overview on each “wing” operators “fly” views to other wing screens

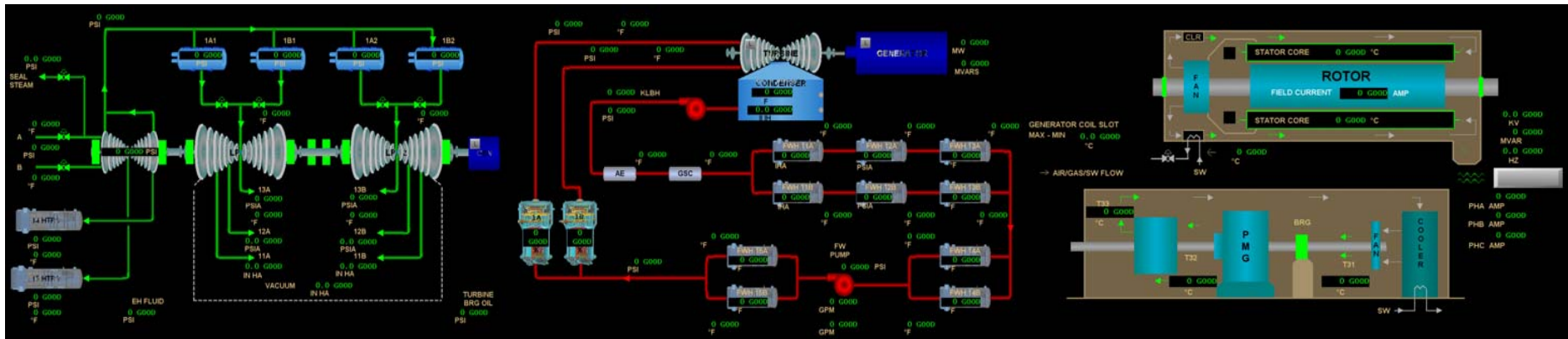
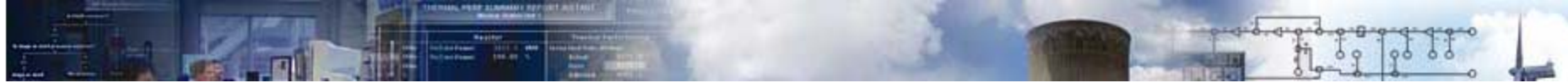














Control Consoles

- Multifunction soft control
- Tactile touch
- Natural component interface
- Computer predicted response compared to actual plant response
 - Immediate assessment of performance and correctness of action



Natural Navigation

- Continuous displays versus disjoint paging systems
- Control room becomes virtual plant view





Questions?