

SRP AFGS Hard Panel Emulation

Agua Fria Hard Panel Emulation

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Agua Fria Plant Overview



Unit 2: 100 MW

Built: 1956

A&E: Bechtel

Boiler: Riley Stoker

Turbine: GE

Peaking Unit



Agua Fria Plant Overview



Staff Training objectives

- ◇ Hot, warm, cold starts
- ◇ Normal shutdowns
- ◇ Trip points match unit
- ◇ Displays match unit
- ◇ Hard panel



Agua Fria Contols



Controls

BOP: Foxboro I/A

Turbine: GE Mechanical



Agua Fria Plant Hard Panel



Turbine Controls

Stop Valve (5 positions)

Governor

Load Limiter

Pneumatic Relief Valve

Feedbacks

Solenoid Trip

MFT



Agua Fria Plant Hard Panel



Turbine Operation
Warming Steam Chest
Roll up and Sync
Load Control (initial)
Swap Arcs



Agua Fria Plant and Simulator



Agua Fria Simulator Overview



Trainee Perspective
Alarm Screen
DCS HMI screens
Hard Panel



SimSci
by Schneider Electric

Agua Fria Simulator Training



Trainee Actions

Steam Chest Warming

Roll-up and Sync

Load Control (initial)

Swap Arcs



Agua Fria Simulator Training



Trainee Responses

Simulator switches
behave very similar to
those on the unit



Thanks for your time and attention

Q & A

