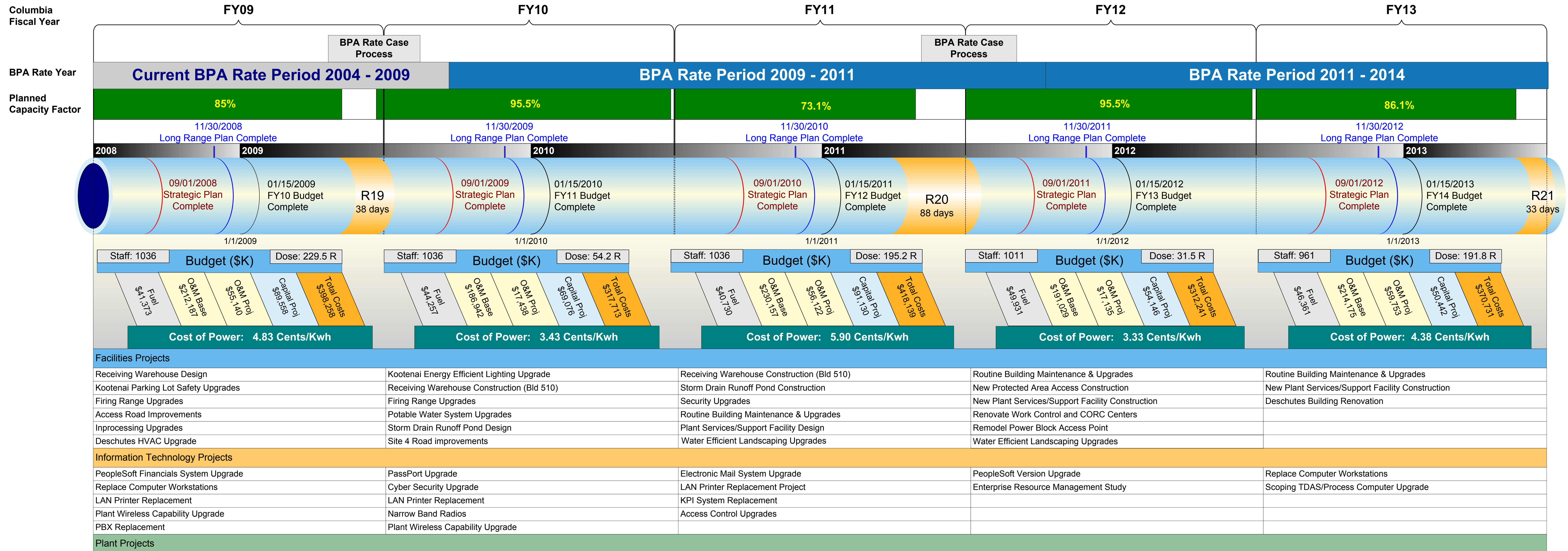


Columbia Projects Pipeline FY09 – FY13



Phase 3 Projects
 LPRM Procurement
 Replace Heat Exchanger RCC-HX-1
 Replace S-CIT-201 and -202 Obsolete Martek Analyze Turbine Supervisory System Upgrade
 Seal Steam Controller - Transmitter
 Replace Oscillograph with Digital Fault Recorder
 Install Blast Walls around the Main Transformers
 Scram Discharge Volume Instrument Mods
 Replace Moisture Separator Reheater Tube Bundles
 RRC-M-P-1A/B Refurbishment
 Main Condenser Replacement, Re
 Upgrade RFP Control System to Eliminate Governor S
 RCC Valves
 Main Condenser Waterbox Drains (3)
 Replace Condensate Booster Pump 2C Motor
 Replace ASD Fortress Display
 Repl Steam Trap Bypass Valves
 Upgrade Trip Logic for CBP Low Suction Pressure Trip
 Upgrade Trip Logic RFT Hi Exh Temp
 HPCS-M-1 Motor Replacement
 Replace and Refurbish Condensate Booster Pump 2C
 Replace Flexible Seal COND-HX-9
 RRC-VMP-1 Upgrade
 Replace Motor RHR-M-P-2B
 Replace Refurbish RFW-DT-1B Turbine Assembly
 Replace and Refurbish Cond M-P-1B and Cond P-1B
 CFD Septa Upgrade, R
 Install Permanent Platforms in Plant
 Reactor Manual Control System Upgrade
 Condenser Stop Drains
 Cobalt Reduction Program [CAP]
 Upgrade RWM System
 Upgrade of Condensate Booster Lube Oil Transfer Val
 Bleed Steam Expansion Joint Replacement
 HCU Maintenance
 MOV Maintenance and Testing
 Heat Exchanger Tube Cleaning
 CRD Parts Procurement
 Relief Valve Rebuild - Testing
 Snubber Testing/Inspection
 Inspect TV GV RSVs IVs
 ISI-NDE
 Annual Transformer Yard Maint
 FAC Pipe Min. Wall Inspection
 MSR Inspection
 Condenser Tube Cleaning and Eddy Current Support
 Bypass Valve Inspection
 Wetwell Inspections - Cleaning
 Test, Replace, and Rebuild MSRVS
 Check Valve Reliability
 Main Turbine Inspection
 Enhanced AOV Reliability Program
 Eddy Current Test Hi Exh
 Cooling Tower Fans
 Main Generator Maintenance - Spent Fuel Pool Cleanup
 E-Gen-1 Remove and clean H2 cooler heat exchanger
 Disassemble and Inspect MSIVs
 Vessel Services
 Overhaul TRM 1, 2, 4
 BOP Valve Inspection & Repair
 CAC System Deactivation-Phase II
 RFW-V-32A & 32B Actuator Removal & LLRT Vent A
 CRDM Parts Reverse Engineering
 TSW Piping Repl WRA-AC-52
 Chemical Decontamination of RRC Loops
 Unsafe Drywell Conditions
 PER 204-1269, CEP and CSP valve stem bushing rep
 LP-CV-3 Repair Valve Leak by Seal
 Drywell Protective Coatings Maintenance Program
 Temp Power
 Cobalt Reduction Program [EXP]
 Evaluate replacing Quadrotor Orifices with Smaller Orif
 Inspection hangers for RFW Turbine 1B Exhaust Hooc
 RFW FCV 2A 2B Trim Upgrade
 Integrated Leak Rate Test Su
 Clean Gland Seal Steam Condenser (COND-HX-7)

Phase 2: Design/Engineering
 PDIS System Replacement
 Upgrade RWM and AST Systems
 HD Tank Discharge Pipe Support Design
 HPCS Governor Replacement
Phase 1: Scope/Estimate
 Upgrade transformer yard oil collection
 Digital Fault Recorder (Replaces Oscillograph)
 Replace Seal Steam Pressure controllers
 Replace Moisture Separator Reheater Tube Bundl
 Bleed Steam LP Expansion Joint
 DSA Water Removal Equipment
 Replace Power Range Neutron Monitoring
 Turbine Supervisory System Upgrade
 HPCS Voltage Regulator Replacement (Scoping)
 Seismic System Replacement
 Upgrade supports for COND-V-708
 Replace Heat Exchanger RCC-HX-1A,B,C
 AS Level Control Upgrade
 Conceptual Study for Digital Upgrades

Phase 3 Implementation
 IFSSI Campaigns
 TMU-P-1A, 1B, 1C Remove, Replace, & Refurbish P
 Critical Spares
 CW-P-1A, 1B, 1C Remove, Replace, & Refurbish P
 Yokagawa Recorders
 DG-3 Turbocharger Replacement
 DG-3 Turbocharger Replacement
 Replace Process Rad Monitors
 Plant License Extension/Renewal
 Replace RCIC Drip Pot Drain Piping with Stainless S
 Stack Monitor Upgrade
 Replace the CAS/SA Compressors
 Install Permanent Platforms in Plant
 DSA Water Removal Equipment
 Replace SW Chiller B Valves SW-V-822A/823A/224A
 Cooling Tower Fill Replacement
 Seal Oil Skid Filter Replacement
 RHR-FOV-64A, B, C
 Replace Power Range Neutron Monitoring
 Replace TG 501 Cameras
 Turbine Supervisory System Upgrade - Design Only
 HJ38 Series CB'S No Longer Available
 Install dissolved oxygen monitors on the SCW system
 Vessel Services
 Seismic System Replacement
 Replace Heat Exchanger RCC-HX-1A,B,C
 HD Tank Discharge Pipe Support Design
 Replace ASD Fortress Display - Design Only
 HPCS Governor Replacement
 AS Level Control Upgrade
 Replace SIL-P-1A/1B
 Upgrade AST
 Upgrade failure logic on AR-V-1 to reduce SPV poten
 Annunciator Reset Horn in Control Room
 Minor Mods (formerly Quick Kills)
 Routine Painting and Upkeep
 Landfill 618-11 Remediation Support
 Emergency Diesel Generator Maint (DG-1/DG-2/DG-3)
 ISINDE
 Annual Transformer Yard
 FAC Pipe Min. Wall Inspection
 Plant HVAC Program
 Eddy Current Test Hi Exch
 Cig Tw & CW Prevent Maint
 BOP Valve Inspection and Repair
 Enhanced AOV Program
 Dose Reduction (Formerly Stellite Reduction Compon
 Protective Coatings
 Evaluate Traveling Screens for Circ Water Pumphou
 Check Valve Reliability
 Alternate Decay Heat Removal System
 Whole Body Counter monitor replacement
 Replace Heat Exchanger RCC-HX-1A,B,C
 Replace ASD Fortress Display - Design Only
 Replace SW/DCW Metal Bellows Expansion Joints
 Replace SW Piping Downstream SW-RO-2A
 Install Voltage and Frequency Transducers on 115V and 230V
 E-GEN-1 Install Torsional Vibration Monitoring Equipment

Phase 2 Design/Engineering
 Replace Main Generator Rotor
 Plant Fire Detection System Upgrade
 PDIS System Replacement
 Upgrade transformer yard oil collection
 Dose Reduction (Formerly Stellite Reduction Compon
 Replace Seal Steam Pressure controllers
 Digital Fault Recorder (Replaces Oscillograph)
 Replace Moisture Separator Reheater Tube Bundles
 Replace Main Transformer Study/Testing
 ASD Glycol Pump
 SW-V-34 Replace with Spoolpiece
 Replace DG 2 with Spare Generator
 Removal of RSCS Rod Blocks from RMCS
 Upgrade transformer yard oil collection
 Control Room Indication for CW Plenum
 Simulator I/O Hardware Upgrade
 Remote Vibration Monitoring Non-critical Fans
 CRDM Parts Reverse Engineering
 Keep-Hill Pump Upgrades
 PSA Upgrade-Scope & Capability
 DG-1/2 Spare Generator Refurbishment
 New Temperature Controller for OG-TC-2A (2B)
 Replace Bypass Damper ROA-AD-2
 Whole Body Counter monitor replacement
 Upgrade supports for COND-V-708
 Reinforce or Provide Walkway on ASD Roof
 HPCS Governor Replacement
 AS Level Control Upgrade
 Replace SIL-P-1A/1B
 Upgrade AST
 Upgrade failure logic on AR-V-1 to reduce SPV poten
 Annunciator Reset Horn in Control Room
 Minor Mods (formerly Quick Kills)
 Routine Painting and Upkeep
 Landfill 618-11 Remediation Support
 Emergency Diesel Generator Maint (DG-1/DG-2/DG-3)
 ISINDE
 Annual Transformer Yard
 FAC Pipe Min. Wall Inspection
 Plant HVAC Program
 Eddy Current Test Hi Exch
 Cig Tw & CW Prevent Maint
 BOP Valve Inspection and Repair
 Enhanced AOV Program
 Dose Reduction (Formerly Stellite Reduction Compon
 Protective Coatings
 Evaluate Traveling Screens for Circ Water Pumphou
 Check Valve Reliability
 Alternate Decay Heat Removal System
 Whole Body Counter monitor replacement
 Replace Heat Exchanger RCC-HX-1A,B,C
 Replace ASD Fortress Display - Design Only
 Replace SW/DCW Metal Bellows Expansion Joints
 Replace SW Piping Downstream SW-RO-2A
 Install Voltage and Frequency Transducers on 115V and 230V
 E-GEN-1 Install Torsional Vibration Monitoring Equipment

Phase 3 Implementation
 Critical Spares
 Replace Main Generator Rotor
 Plant Fire Detection System Upgrade
 PDIS System Replacement
 Upgrade transformer yard oil collection
 Control Room Indication for CW Plenum
 Simulator I/O Hardware Upgrade
 Remote Vibration Monitoring Non-critical Fans
 CRDM Parts Reverse Engineering
 Keep-Hill Pump Upgrades
 PSA Upgrade-Scope & Capability
 DG-1/2 Spare Generator Refurbishment
 New Temperature Controller for OG-TC-2A (2B)
 Replace Bypass Damper ROA-AD-2
 Whole Body Counter monitor replacement
 Upgrade supports for COND-V-708
 Reinforce or Provide Walkway on ASD Roof
 HPCS Governor Replacement
 AS Level Control Upgrade
 Replace SIL-P-1A/1B
 Upgrade AST
 Upgrade failure logic on AR-V-1 to reduce SPV poten
 Annunciator Reset Horn in Control Room
 Minor Mods (formerly Quick Kills)
 Routine Painting and Upkeep
 Landfill 618-11 Remediation Support
 Emergency Diesel Generator Maint (DG-1/DG-2/DG-3)
 ISINDE
 Annual Transformer Yard
 FAC Pipe Min. Wall Inspection
 Plant HVAC Program
 Eddy Current Test Hi Exch
 Cig Tw & CW Prevent Maint
 BOP Valve Inspection and Repair
 Enhanced AOV Program
 Dose Reduction (Formerly Stellite Reduction Compon
 Protective Coatings
 Evaluate Traveling Screens for Circ Water Pumphou
 Check Valve Reliability
 Alternate Decay Heat Removal System
 Whole Body Counter monitor replacement
 Replace Heat Exchanger RCC-HX-1A,B,C
 Replace ASD Fortress Display - Design Only
 Replace SW/DCW Metal Bellows Expansion Joints
 Replace SW Piping Downstream SW-RO-2A
 Install Voltage and Frequency Transducers on 115V and 230V
 E-GEN-1 Install Torsional Vibration Monitoring Equipment

Phase 3: Implementation
 Noble Metal Coating System
 Firing Range Baffles
 IFSSI Campaign - FY14
 ISFSI Pad Expansion
 RP Remote Monitoring System
 Replace H2 Detector TG-H2IS-1
 Replace SW/DCW Metal Bellows Expansio
 Chemistry Lab Upgrades
 Replace ERDS
 RFW-V-32A/B- RFW-V-10 Path Forward
 Replace SW/DCW Metal Bellows Expansio
 E-GEN-1 Install Torsional Vibration Monitor
 Replace RRC-FT-14A-D & 24A-D
 Install Permanent Platforms in Plant
 Stellite Reduction (components)
Phase 2: Design/Engineering
 Spent Fuel Pool Cleanup (planning/scoping)
 Replace Transformer TR-N2
 Replace Transformer TR-S
 Reactor Manual Control Syst Upgrade
 Replace Main Transformer M2
 SRM/IRM Replacement
 E-EXC-1, Replace Main Generator Exciter
 Install FW Htr & Drn Tank Level Control Sy
 E-GEN-1, Replace Main Generator Lead Bt
 TIP System Upgrade
Phase 1: Scope/Estimate
 RCS Access Control Syst Upgrade
 Replace FP-ENG-110 and Controller

Phase 3: Implementation
 Active Vehicle Barriers
 Centralized HP Ops Mon
 Control Rod Blade Procurement
 E-EXC-1, Replace Main Generator Ex
 E-GEN-1, Replace Main Generator Le
 Install FW Htr & Drn Tank Level Contr
 LPRM Procurement
 RD-CS/RPIS Upgrade
 Reactor Manual Control Syst Upgrade
 Replace EDR-HX-1
 Replace Main Transformer M3
 Replace TSW Heat Exchanger
 RFW-DT-1A Refurbish Turbine (R21)
 Security EDG
 Shielding for RWC-U-V-101/103
 TMU-P-1C (Pump & Motor FY13, R21)

Columbia Projects Pipeline FY14 – FY18

