

| 11/4/2014 Master Stakeholder Engagement Plan | | | Jan-14 | Feb-14 | Mar-14 | Apr-14 | May-14 | Jun-14 | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Nov-14 | Dec-14 | Jan-15 | Feb-15 | Mar-15 | Apr-15 | May-14 | Jun-15 | Jul-15 | Aug-15 | Sep-15 | Oct-15 | Nov-15 | Dec-15 |
|--|----------------|---|--------|--------|--------|--------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Policy Initiatives | Policy | Pricing Enhancements | | | | | | ▲ | | | | | | ▲ | | | | | | | | | | | | |
| | Policy | Contingency Modeling Enhancements | | | | | | | | | | | | | | | | ▲ | | | | | | | | |
| | Policy | Expanding Metering and Telemetry Options Phase 2 | | | | | | | | | | | ▲ | | | | | | | | | | | | | |
| | Policy | Flexible Ramping Product | | | | | | | ▲ | | | | | | | | ▲ | | | | | | | | | |
| | Policy | Multi-Year Reliability Framework | | | | | | | | → | | | | | | | | | | | | | | | | |
| | Policy | Reliability Services | | ▲ | | | | | | | | | | | | | | ▲ | | | | | | | | |
| | Policy | Energy Storage Interconnection | | | | | | | ▲ | | | | | | → | | | | | | | | | | | |
| | Policy | Capacity Procurement Mechanism Replacement | | | | | | | ▲ | | | | | | | | | ▲ | | | | | | | | |
| | Policy | Revisions to ISO Transmission Planning Standards | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Pay for Performance Review and Enhancement | | | | | | | | | ▲ | | | ▲ | | | | | | | | | | | | |
| | Policy | Load Granularity Refinements | | | | | | | | | ▲ | | | | | | | | ▲ | | | | | | | |
| | Policy | Commitment Costs Enhancements Phase 2 | | | | | | | | | | | ▲ | | | | | | ▲ | | | | | | | |
| | Policy | Bidding Rules | | | | | | | | | | | | ▲ | | | | | ▲ | | | | | | | |
| | Policy | Combined Demand Response Product | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Competitive Solicitation Process Enhancements | | | | | | | | | | | ▲ | | | | | | ▲ | | | | | | | |
| | Policy | Natural Gas Pipeline Penalty Recover | | | | | | | | | | | ▲ | | | | | | | | | | | | | ▲ |
| | Policy | EIM Year 1 Enhancements | | | | | | | | | | | | ▲ | | | | | | | | | | | | ▲ |
| Recurring Initiatives | Recurring | 2014 Local Capacity Requirements (LCR Study) | | | | | Website 2014 | | | | | | | | | | | | | | | | | | | |
| | Recurring | GMC / Budget Process | | | | | | | | | | | | | | | | | | | | | | | | |
| | Recurring | PTO Per Unit Cost | | | | | | | | | | | | | | | | | | | | | | | | |
| | Recurring | Interconnection Process Enhancements 2015 | | | | | | | | | | | | | | | | | | | | | | | | |
| | Recurring | Stakeholder Initiative Catalog Process | | | | | | | | | | | | | | | | | | | | | | | | |
| | Recurring | Transmission Planning Process | | | | | | | | | | | | | | | | | | | | | | | | |
| Independent | Implementation | Flexible Resource Adequacy Criteria and Must Offer Obligation | | | | | | | | | | | | ★ | | | | | | | | | | | | |
| | Implementation | Commitment Costs Enhancements | | | | | | | | | | | | ★ | | | | | | | | | | | | |
| | Implementation | DRS api | | | | | | | | | | | | ★ | | | | | | | | | | | | |
| Fall 2014 | Implementation | Many-to-Many Substitution (SCP Availability Calculations) | | | | | | | | | | | | ★ | | | | | | | | | | | | |
| | Implementation | Outage Management System Replacement | | | | | | | | | | | | ★ | | | | | | | | | | | | |
| Spring 2015 | Implementation | Maintenance Release | | | | | | | | | | | | | | | | | | | | | | | | |
| | Implementation | Many-to-Many Substitution / App Consolidation | | | | | | | | | | | | | | | | | | | | | | | | |
| | Implementation | Circular Scheduling | | | | | | | | | | | | | | | | | | | | | | | | |
| | Implementation | Convergence Bidding at the Interties | | | | | | | | | | | | | | | | | | | | | | | | |
| Fall 2015 | Implementation | EIM 2015 (NV Energy) | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | EIM Year 1 Enhancements | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | BAL-003 Compliance | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | RIMS Functional Enhancements | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | OMAR Replacement Project | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | ADS UI Replacement and Web Service Standardization | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | Contingency Modeling Enhancements | | | | | | | | | | | | | | | | | | | | | | | ★ | |
| | Implementation | Expanding Metering and Telemetry Options - placeholder | | | | | | | | | | | | | | | | | | | | | | | | ★ |
| | Implementation | Capacity Procurement Mechanism Replacement | | | | | | | | | | | | | | | | | | | | | | | | ★ |
| TBD | Policy | Aggregated Pumps and Pump Storage | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | AS Substitution | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Bid Cost Recovery for Unit over Multiple Days | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Cost Allocation Overall Market Review | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Marginal Loss Surplus Allocation | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Multi Day Unit Commitment | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Reliability Must-Run Pump Load | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Two Tier Real-Time Uplift | | | | | | | | | | | | | | | | | | | | | | | | |
| | Policy | Frequency Response Procurement | | | | | | | | | | | | | | | | | | | | | | | | |
| | Implementation | Subset of Hours | | | | | | | | | | | | | | | | | | | | | | | | |
| Technology Roadmap | Planning | Enterprise Model Management | | | | | | | | | | | | | | | | | | | | | | | | |
| | Planning | External Technology Roadmap | | | | | | | | | | | | | | | | | | | | | | | | |

| Legend | |
|--------|------------------------------|
| ▲ | Policy - Start |
| ▲ | Policy - Board Decision |
| → | Market Simulation |
| ★ | Deployment Date |
| ★ | Effective Date, if different |

Changes on 11/1/14

Load Granularity Refinements will go to Board in March 2015
2015 Stakeholder Initiative Catalog will go to Board in Feb 2015
Removed Full Network Model implementation as complete
Removed Energy Imbalance Market implementation as complete
Added FRAC-MOO effective date on 1/1/15
Added DRS API deployment on 12/15/14
Opportunity costs has started and is now called "Commitment Cost Enhancements Phase 2". It is targetted for Board decision in March 2015.
The Capacity Procurement Mechanism Replacement initiative is planned for Board decision in February (moved from January).
Removed December Board decision from Energy Storage Interconnection initiative.
Moved Competitive Solicitation Process Enhancements from TBD to Policy section. It started in October and will go to the March 2015 Board meeting.
Start of Bidding Rules policy initiative moved from October to November.

Changes on 10/2/14

Moved EIM Enhancements from Policy section to implementation (EIM in Fall 2014 Release)
Removed Commitment Cost Enhancements from Policy section as it was approved by the Board (see Independent Releases for implementation)
Removed Transmission planning standards from Policy section as it was approved by the Board
Removed FERC 789 / Contingency Reserve Cost Allocation as it is complete.
Removed Acceptable Use Policy Phase 1 & 2 as it is complete.
Moved FNM Expansion activation from 10/1/14 to 10/15/14
Moved EIM full deployment from 10/1/14 to 11/1/14 (with Parallel Production from 10/1/14 to 11/1/14)
Moved OMS deployment from 10/1/14 to 11/1/14 with EIM and 12/1/14 for tariff section 9 changes
Moved Many-to-Many Substitution (SCP Availability Calculations) activation from 10/1/14 to 12/1/14 (with OMS tariff section 9 changes)
Removal of Standard Capacity Product Phase 3 from TBD section. The RSI initiative will include the demand response related to SCP 3.
Moved Subset of Hours from Fall 2015 Release to TBD section. It is subject to further release planning.
Added Opportunity Costs Board decision of March 2015
Added implementation date of 12/1/14 for Commitment Cost Enhancements
Moved Frequency Response Procurement from Policy to TBD section
Added Natural Gas Pipeline Penalty Recovery initiative to Policy section
Added EIM Year 1 Enhancements to Policy section

Changes on 9/2/14

Added Outage Management System to Independent Releases with 12/1/14 deployment, in addition to the 10/1/14 deployment with the Fall 2014 Release
Reliability Services target Board decision in March 2015
Flexible Ramping Product Board decision moved to February 2015
Updated policy initiative the Energy Storage Roadmap and show it starting in July 2014 and ending in December 2014
Contingency Modeling Enhancements target Board decision in March 2015
Opportunity costs starting in October 2014 and targetted for Feb 2015 Boarc decision
Moved start of Bidding Rules to October 2014

Changes on 8/1/14

Added Capacity procurement mechanism replace to Fall 2015 release (instead of Reliability Services Initiative - placeholder)
Added Contingency Modeling Enhancements to Fall 2015 release
Added Commitment Cost Enhancements to Independent Releases (schedule to be determined)
Moved Contingency Reserve Cost Allocation from Policy phase (approved) to Fall 2014 release
Renamed BAL-002 Compliance to FERC 789 / Contingency Reserve Cost Allocation in Fall 2014 release
Removed Interconnection Process Enhancements from Policy Phase (approved)
Moved Interconnection Process Enhancements 2015 from TBD to Recurring Policy
Added Pay for Performance Review and Enhancement to Policy section - planned to start in August 2014
Added Load Granularity Refinements to Policy section - planned to start in August 2014
Added Bidding Rules to Policy section - planned to start in August/September 2014
Added Frequency Response Procurement to Policy section - planned to start in August/September 2014
Added Stakeholder Initiative Catalog Process to Recurring Initiatives - planned to start in August/September 2014
Added Combined Demand Response Product to Policy Initiatives - planned to start in August/September 2014

Changes on 7/1/14

Acceptable Use Policy Phase 1 and 2 implementation - Mutual Authentication deployed to production June 16; additional services identified for enforcement; analysis of services requiring refactoring underway
Pricing Enhancements - added Board decision date of December 2014
Added Interconnection Process Enhancements with Board decision for topics 13 and 14 in July 2014
Contingency Modeling Enhancements - Board decision date is to be determined and implementation removed until release is determined
Changed the start of the Energy Storage Interconnection policy initiative to April 2014 and the end to November 2014
Moved Competitive Solicitation Process Enhancements policy initiative to the TBD section
Added Capacity Procurement Mechanism Replacement with Board decision planned for January 2015
Added Interconnection Process Enhancements 2015 to TBD section

Changes on 6/2/14

Removed Interconnection Process Enhancements as approved in May 2014
Added EIM Enhancements policy initiative to start in Q2 2014
Moved start dates for following policy initiatives to June 2014: Flexible Ramping Product, Pricing Enhancements
Policy initiatives to start in Q2 2014: Competitive Solicitation Process Enhancements, Energy Storage Interconnection
Acceptable Use Policy implementation dates moved to 5/27/14 (OASIS) and 6/16/14 (mutual authentication)
Moved Flexible Resource Adequacy Criteria and Must Offer Obligation implementation to independent release with deployment date of 11/6/14
Phased Many-to-Many Substitution with Fall 2014 release to include SCP Availability Calculations functionality
Added Many-to-Many Substitution / App Consolidation to Spring 2015 release
Added activation of Convergence Bidding at the Interties to Spring 2015 release
Added EIM 2015 (NV Energy) to Fall 2015 release
Added BAL-003 Compliance to Fall 2015 release
Moved Subset of Hours from TBD to Fall 2015 release
Added RIMS functional enhancements to Fall 2015 release
Added OMAR replacement project to Fall 2015 release
Moved ADS UI Replacement and Web Service Standardization from TBD to Fall 2015 release
Capacity Market Conceptual Design from TBD section (replaced by Reliability Services Initiative)
Moved DRS api from TBD to Independent Releases (late summer or Fall 2014)
Added implementation placeholders to Fall 2015 Release that are currently in the policy phase: Expanding Metering and Telemetry Options, Reliability Services, Flexible Ramping Product
Moved Contingency Modeling Enhancements Board decision from July 2014 to September 2014 (tentative)

Changes on 5/5/14

Removed Spring 2014 Release as complete
Moved Acceptable Use Policy Phase 1 & 2 from Spring 2014 Release to Independent Release (no change in dates)
Moved Circular Scheduling from Fall 2014 Release to Spring 2015 Release
Removed columns from 2013
Removed GIDAP Reassessment Process from Policy section as complete
Moved start of next phase of Expanding Metering and Telemetry Options policy to October 2014
Removed Voluntary Preferred Resource Auction (no longer valid)
Added Variable Transmission Constraint Relaxation Parameters to the policy section
Added Pricing Enhancements to the policy section
Added Transmission Planning Standards Board decision in September 2014
Added Energy Storage Interconnection Board decision in December 2014

Changes on 4/1/14

Administrative Pricing Rules targeted to start April 2014 (was February 2014)
Flexible Ramping Product targeted to restart May 2014 (was March 2014)
Revisions to ISO transmission planning standards targeted to start April 2014
Commitment Cost Enhancements targeted to start April 2014
Contingency Reserve Cost Allocation targeted to start April 2014
Energy Storage Interconnection targeted to start April 2014
Removed Flexible Resource Adequacy Criteria and Must Offer Obligation from policy section (approved); implementation Fall 2014 Release
Removed Interconnection Process Enhancements from policy section
Removed Competitive Transmission Improvements from policy section
Removed Stakeholder Initiatives Roadmap from policy section

Removed Intermittent Resource Transitional Protective Measure from policy section
FERC 784 deployed on 3/24/14 (removed)
One-For-Many Outage Substitution deployed on 4/1/14 (removed)
Remaining projects in Spring 2014 Release deployment/activation moved from 4/1/14 to 5/1/14
Acceptable Use Policy Phase 1 activation moved from 5/1/14 to 5/19/14

Changes on 3/1/14

Removed Load Aggregation Point Granularity from Policy Section
Removed Full Network Model Expansion from Policy Section (approved)
Removed Outage Management System from Policy Section (approved)
Moved Contingency Modeling Enhancements Board decision from May 2014 to July 2014
Added FERC Order 784 to Spring 2014 Release
Clarified activation dates for Acceptable Use Policy as 5/1/14 for Phase 1 and 6/2/14 for Phase 2
Added BAL-002 Compliance to Fall 2014 Release
Added Spring 2015 maintenance release

Changes on 2/1/14

Moved Administrative Pricing Rules Board decision from May 2014 to July 2014
Removed Bid Cost Recovery Refinements for Multi-Stage Generation Resources from Policy section per Stakeholder Initiatives Roadmap
Removed Black Start and System Restoration Phase 2 from Policy section per Stakeholder Initiatives Roadmap
Removed Energy Imbalance Market - Governance from Policy section as complete
Added Stakeholder Initiatives Roadmap with Board briefing in March 2014
Added Reliability Services to Policy section
Administrative pricing rules targeted to start in Feb. 2014
Expanding metering and telemetry options targeted to start in Feb 2014
Flexible ramping product targeted to start in March 2014
Revisions to ISO transmission planning standards targeted to start Q1 2014
Added Acceptable Use Policy Phase 1 (logging only) to Spring 2014 Release
Added One For Many Outage Substitution (manual process) to Spring 2014 Release
Moved Contingency Modeling Enhancements implementation to Independent Release (deployment date to be determined)

Changes on 1/6/14

Removed Access and Identity Management (deployed in December 2013)
Removed Replacement Requirements for Scheduled Generation Outages Phase 2 (deployed in December 2013)
Removed RIMS Generation (deployed in December 2013)
Removed GMT (deployed in December 2013)
Moved Contingency Modeling Enhancements Board decision from February 2014 to May 2014 (tentative - the policy initiative schedule is under review)
Moved Flexible Resource Adequacy Criteria and Must Offer Obligation Board decision from February 2014 to March 2014
Corrected Administrative Pricing Rules Board decision date from June 2014 to May 2014
Added GIDAP Reassessment Process as policy initiative with Board decision in May 2014