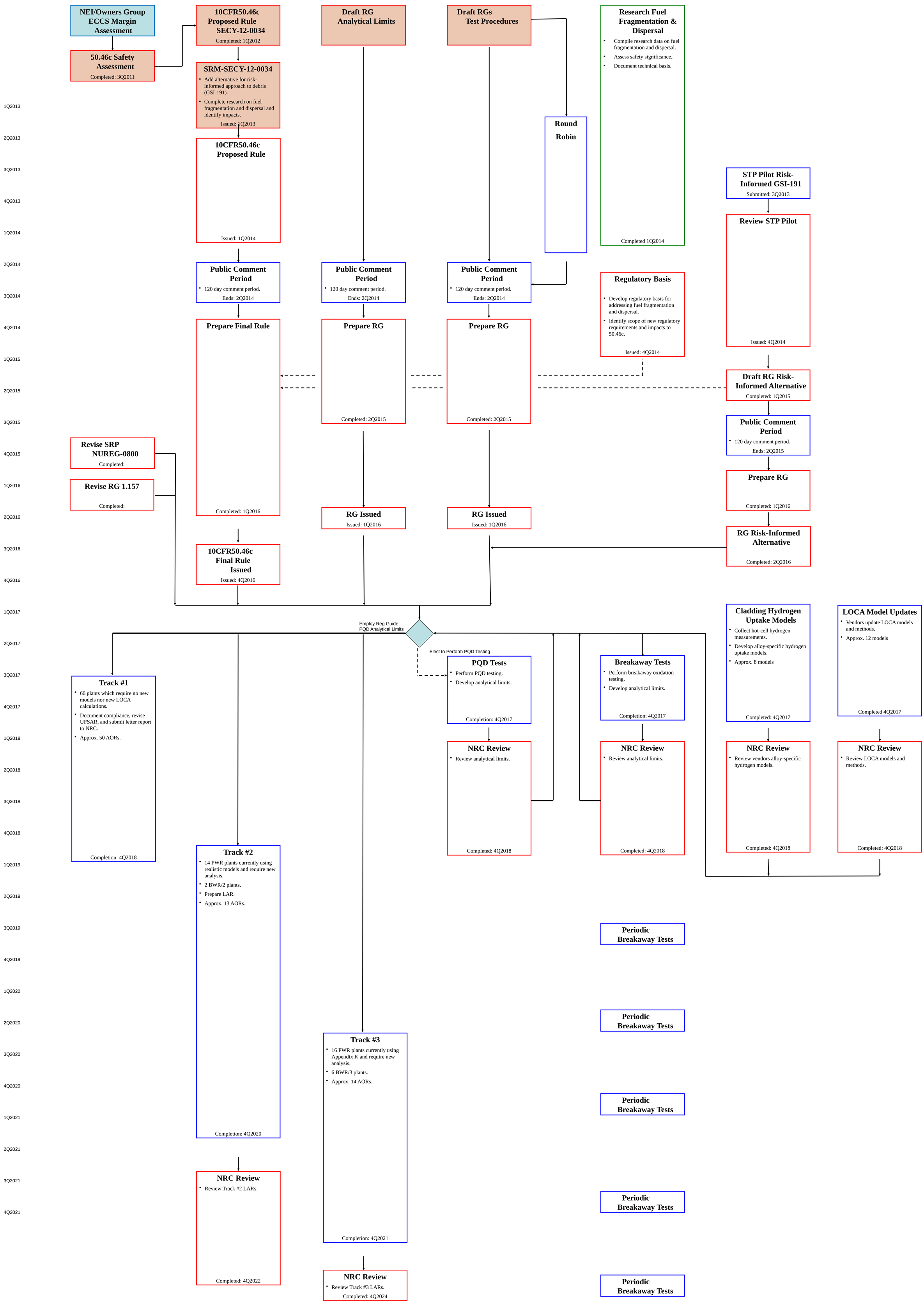
NEI/Owners Group ECCS Margin Assessment
50.46c Safety Assessment
Completed: 3Q2011
10CFR50.46c Proposed Rule SECY-12-0034
Completed: 1Q2012
SRM-SECY-12-0034
Add alternative for risk-informed approach to debris (GSI-191).
Complete research on fuel fragmentation and dispersal and identify impacts.
Issued: 1Q2013
10CFR50.46c Proposed Rule
Issued: 1Q2014
Public Comment Period
120 day comment period.
Ends: 2Q2014
Prepare Final Rule
Completed: 1Q2016
10CFR50.46c Final Rule Issued
Issued: 4Q2016
Draft RG Analytical Limits
Public Comment Period
120 day comment period.
Ends: 2Q2014
Prepare RG
Completed: 2Q2015
RG Issued
Issued: 1Q2016
Draft RGs Test Procedures
Round Robin
Public Comment Period
120 day comment period.
Ends: 2Q2014
Prepare RG
Completed: 2Q2015
RG Issued
Issued: 1Q2016
Research Fuel Fragmentation & Dispersal
Compile research data on fuel fragmentation and dispersal.
Assess safety significance..
Document technical basis.
Completed 1Q2014
Regulatory Basis
Develop regulatory basis for addressing fuel fragmentation and dispersal.
Identify scope of new regulatory requirements and impacts to 50.46c.
Issued: 4Q2014
STP Pilot Risk-Informed GSI-191
Submitted: 3Q2013
Review STP Pilot
Issued: 4Q2014
Draft RG Risk-Informed Alternative
Completed: 1Q2015
Public Comment Period
120 day comment period.
Ends: 2Q2015
Prepare RG
Completed: 1Q2016
RG Risk-Informed Alternative
Completed: 2Q2016
Revise SRP NUREG-0800
Completed:
Revise RG 1.157
Completed:
Employ Reg Guide PQD Analytical Limits
Elect to Perform PQD Testing
Track #1
66 plants which require no new models nor new LOCA calculations.
Document compliance, revise UFSAR, and submit letter report to NRC.
Approx. 50 AORs.
Completion: 4Q2018
Track #2
14 PWR plants currently using realistic models and require new analysis.
2 BWR/2 plants.
Prepare LAR.
Approx. 13 AORs.
Completion: 4Q2020
NRC Review
Review Track #2 LARs.
Completed: 4Q2022
Track #3
16 PWR plants currently using Appendix K and require new analysis.
6 BWR/3 plants.
Approx. 14 AORs.
Completion: 4Q2021
NRC Review
Review Track #3 LARs.
Completed: 4Q2024
PQD Tests
Perform PQD testing.
Develop analytical limits.
Completion: 4Q2017
NRC Review
Review analytical limits.
Completed: 4Q2018
Breakaway Tests
Perform breakaway oxidation testing.
Develop analytical limits.
Completion: 4Q2017
NRC Review
Review analytical limits.
Completed: 4Q2018
Cladding Hydrogen Uptake Models
Collect hot-cell hydrogen measurements.
Develop alloy-specific hydrogen uptake models.
Approx. 8 models
Completed: 4Q2017
NRC Review
Review vendors alloy-specific hydrogen models.
Completed: 4Q2018
LOCA Model Updates
Vendors update LOCA models and methods.
Approx. 12 models
Completed 4Q2017
NRC Review
Review LOCA models and methods.
Completed: 4Q2018
Periodic Breakaway Tests
Periodic Breakaway Tests
Periodic Breakaway Tests
Periodic Breakaway Tests
Periodic Breakaway Tests
1Q2013
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4Q2021