

# Generic Issues Program Overview and Update

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Nuclear Power Plants (ICAPP '08)

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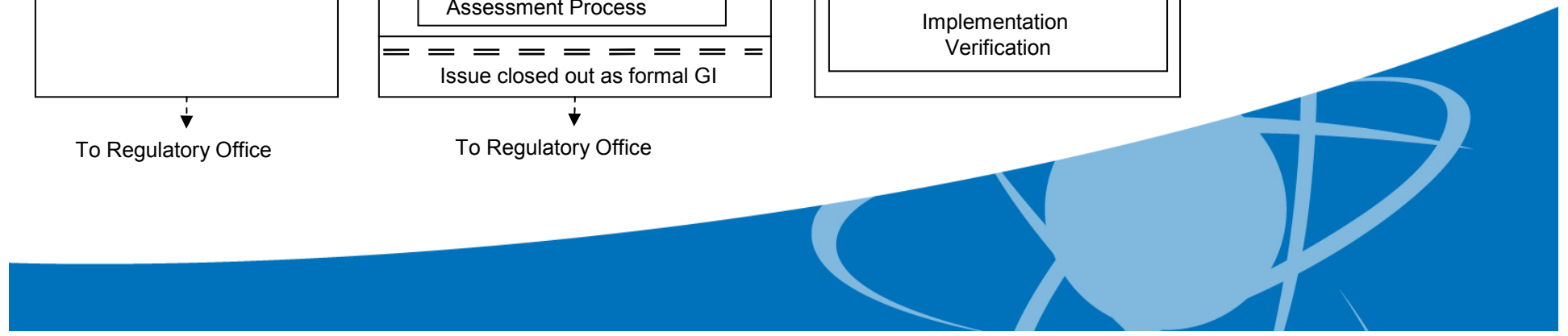
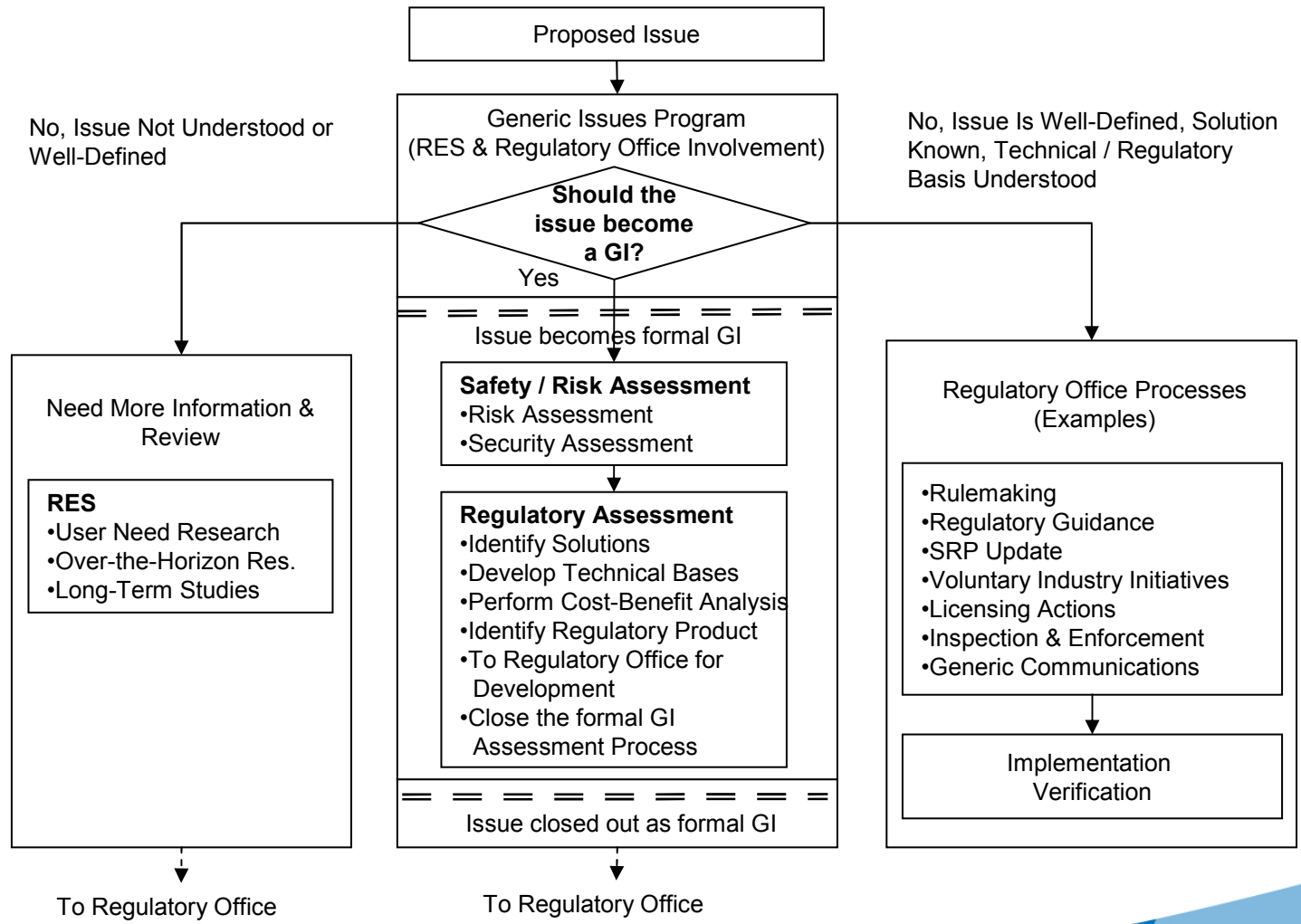
# Introduction



- GIP Background
  - Started in 1976. Became Congressionally mandated in 1977 (Public Law 95-209 amended the Energy Reorganization Act of 1974)
  - Evolved over time, now it is a mature program.
- GIP Mission, Purpose, Objectives
- GIP Improvements per SECY-07-0022 (publicly available)
  - improve timeliness
  - clarify roles and responsibilities
  - establish clear interfaces
  - increase stakeholder participation



# Generic Issues Program in Perspective with Other Regulatory Programs and Processes

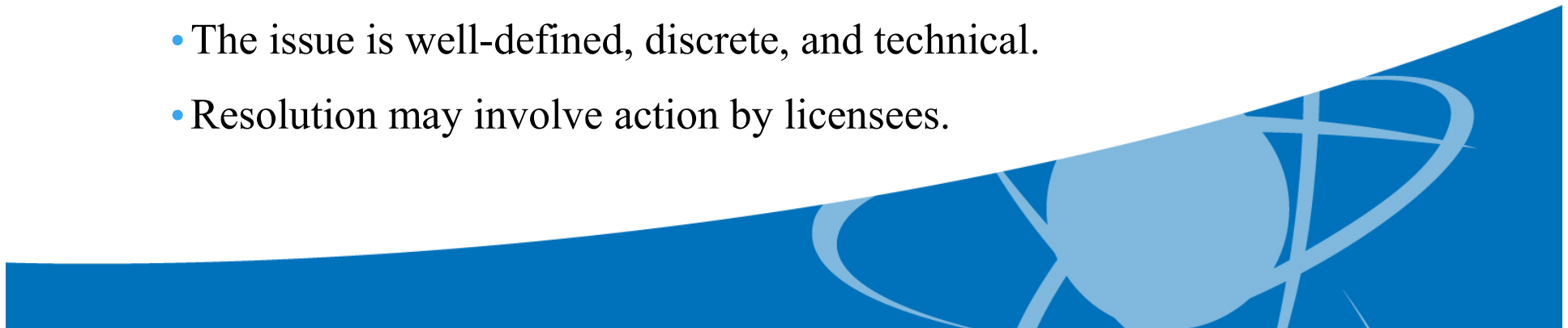


# Enhanced GIP Criteria

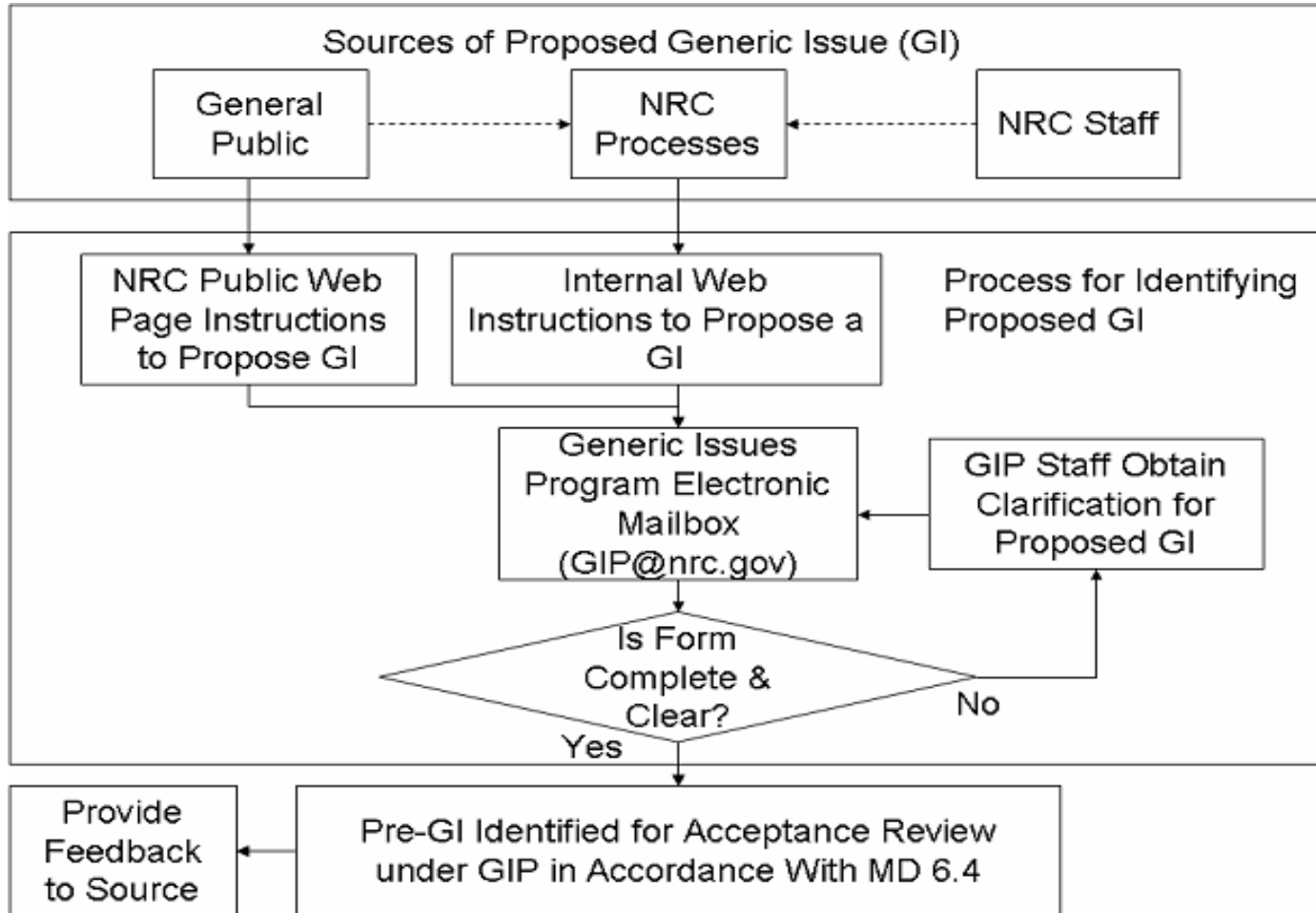


Seven criteria apply during all GIP stages to control entry and help identify when other agency programs are better suited to further address issues.

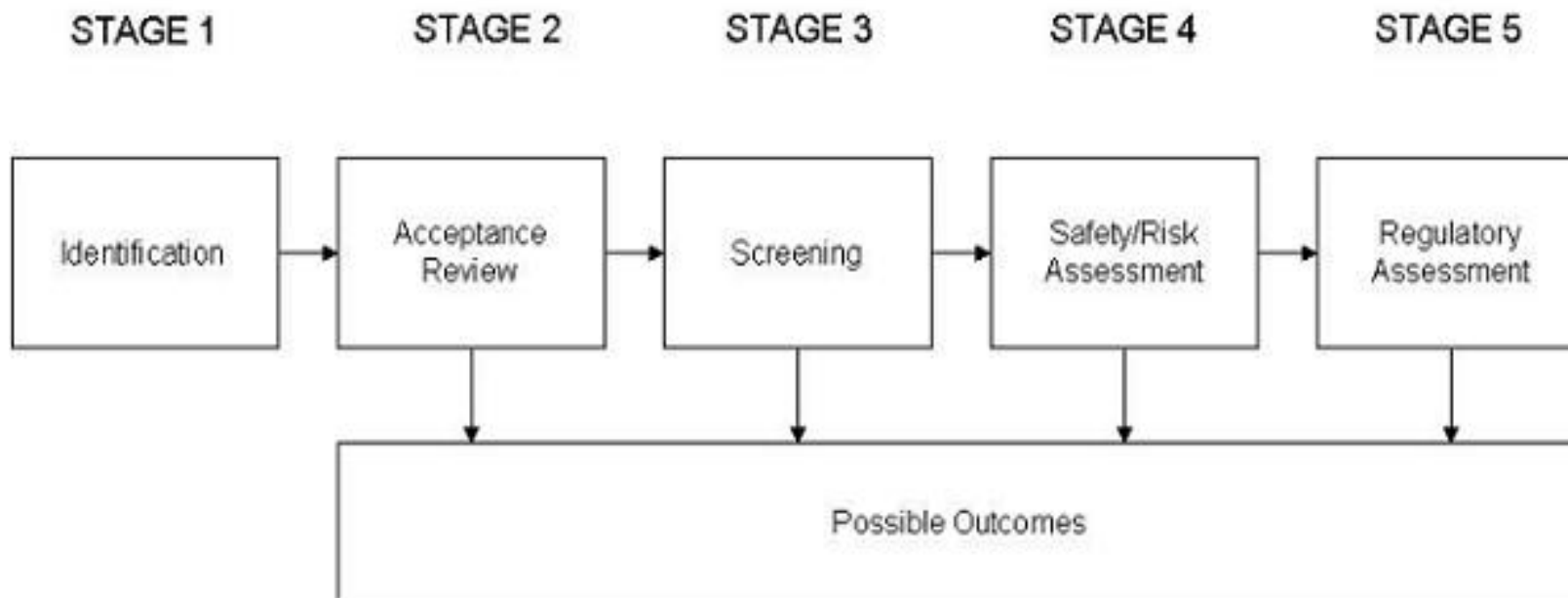
- Affects public health and safety, the common defense and security, or the environment.
- Generic, i.e. affects two or more facilities or licensees.
- Not readily addressed by other regulatory programs and processes, or existing regulations or industry initiatives.
- Can be resolved by new or revised regulation or policy.
- Risk or safety significance can be adequately determined.
- The issue is well-defined, discrete, and technical.
- Resolution may involve action by licensees.



# Sources of Proposed Generic Issues and Entry into the GIP



**GI PROCESS STAGES**

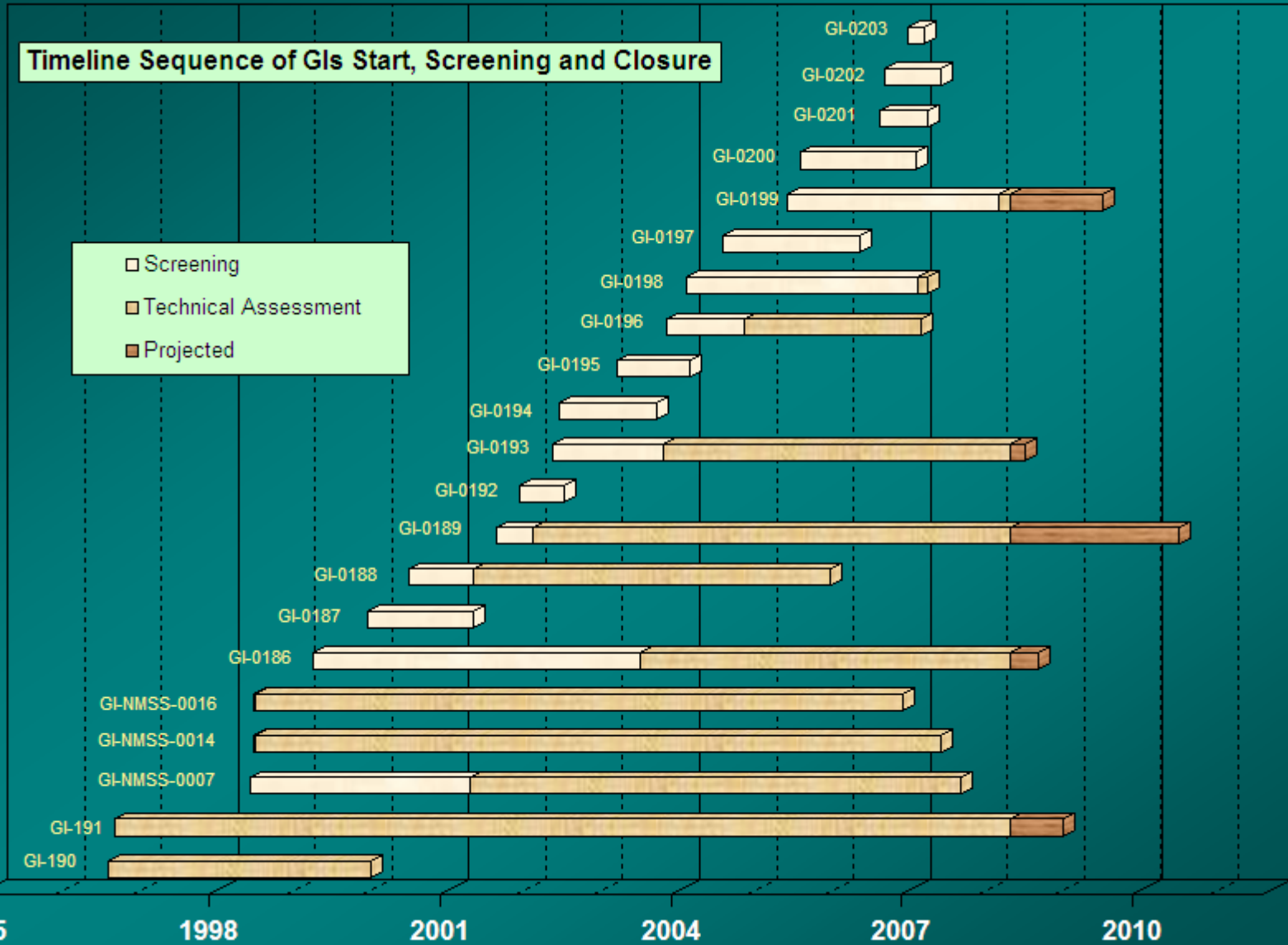


# GIP Enhancements



- Improve timeliness.
  - Enhanced screening criteria, improved tracking, and an RES Project Manager assigned for each GI.
- Clarify roles and responsibilities/establish clear interfaces
  - Office contacts to enhance inter-office coordination, and Management Directives and Office Instructions being revised.
- Increased stakeholder participation
  - Revised web pages, held a public meeting, conducted staff training, developed Communications Plans, wrote papers, and attended conferences.

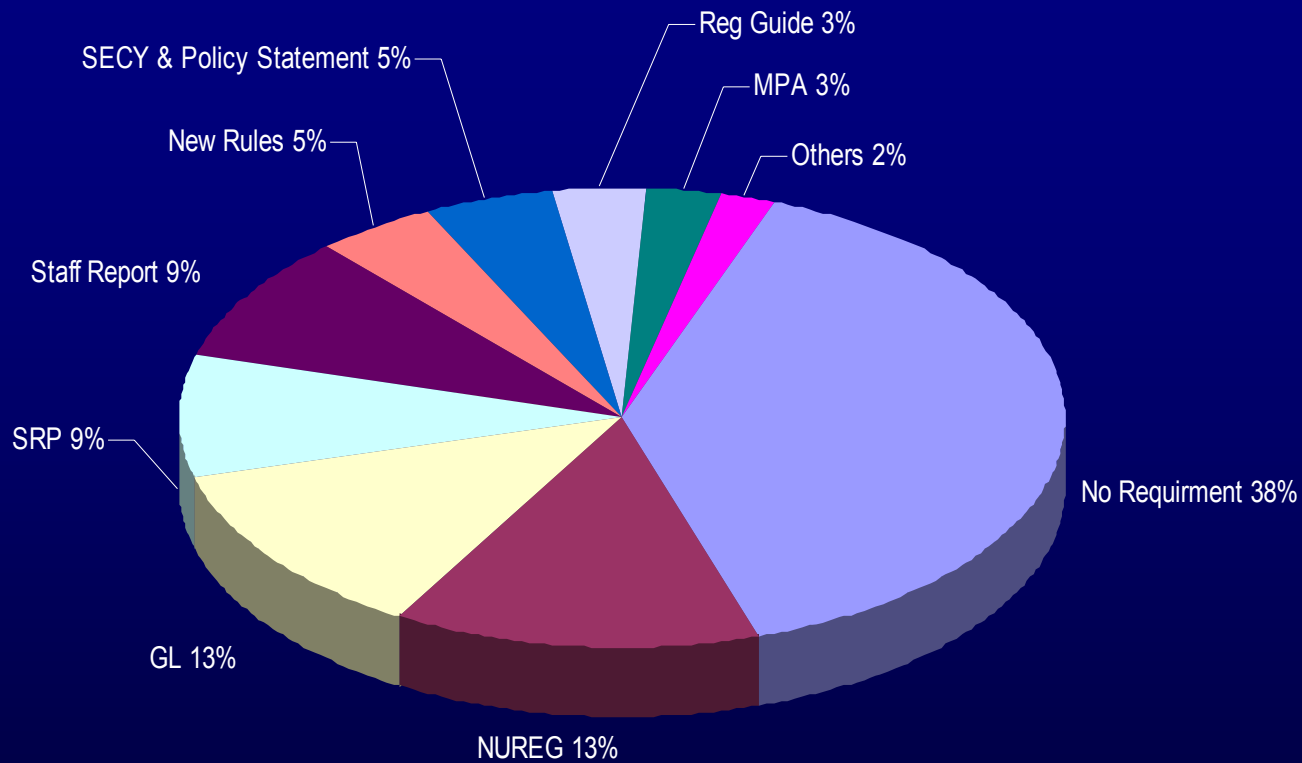
# GIP Performance





# GIP Performance (continued)

Resolution Products for GIs that Screened In from FY 1983 to Present



## Current Status of GIs



- Three Active Reactor GIs in the GIP
  - GI-186, "Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants" expected Closure 8/2008
  - GI-193, "BWR ECCS Suction Concerns" expected Closure 9/2008
  - GI-199, "Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States for Existing Plants" (Screening completed 2/2008)
- Three Open Reactor GIs with Regulatory Office for Implementation

# Recent Activities



- Major changes to GIP procedures will implement the enhancements described in SECY-07-0022
  - MD 6.4 and handbook revision is in progress, currently in approval process
  - RES Office Instruction TEC-002 revision also in progress
- Seven reactor GIs were recently closed.
  - GI-156.6.1, "Pipe Break Effects on Systems and Components"
  - GI-196 "Boral Degradation"
  - GI-198 "Hydrogen Combustion in PWR Piping"
  - GI-200 "Tin Whiskers"
  - GI-201 "Small-Break LOCA and Loss of Offsite Power"
  - GI-202 "Spent Fuel Pool Leakage Impacts"
  - GI-203 "Potential Safety Issues with Cranes That Lift Spent Fuel Casks"

## Recent Activities (Cont.)

- Three reactor GIs changed status to Regulatory Office Implementation per SECY-07-0022.
  - GI-163 “Multiple Steam Generator Tube Leakage”
  - GI-189 “Susceptibility of Ice Condenser and Mark III Containments to Early Failure from Hydrogen Combustion During a Severe Accident”
  - GI-191 “Assessment of Debris Accumulation on PWR Sump”
- Three non-reactor GIs were recently closed per SECY-07-0022.
  - GI-NMSS-0007 “Implementation, Criticality Benchmarks Greater Than 5% Enrichment”
  - GI-NMSS-0014, “Surety Estimates for Groundwater Restoration at In-Situ Leach Facilities”
  - GI-NMSS-0016, “Adequacy of 0.05 Weight Percent Limit in 10 CFR 40”