

Metropolis Works

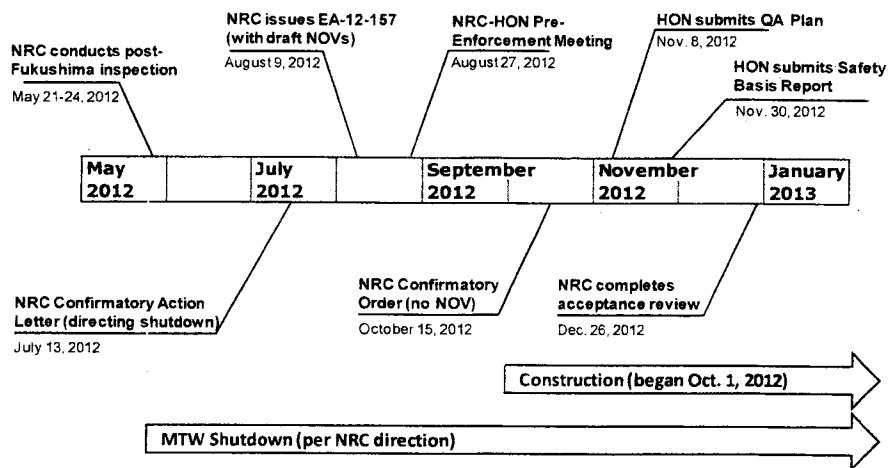
Metropolis, Illinois

February 7, 2013

Honeywell

Timeline of Shutdown/Restart Activities

Honeywell

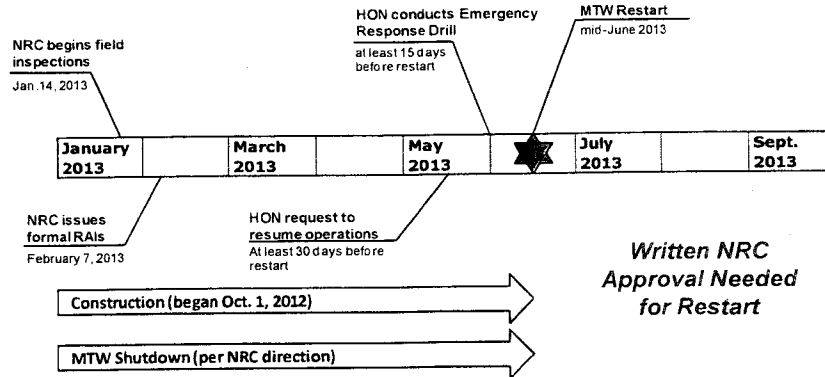


Steady Progress Toward Restart

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Timeline of Upcoming Activities

Honeywell



Steady Progress Toward Restart

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Status of Restart Efforts

Honeywell

- **Three categories of restart actions**
 - **Withstand 475-year EQ or tornado hazards**
 - Ensure no liquid UF6 releases will occur, using conservative 2002 USGS seismic maps
 - Upgrade the FMB structure, HF/NH3 tank farm, and main pipe rack
 - Install equipment supports/bracing/anchoring; tornado missile shields
 - **Added safety margin for beyond-design-basis events**
 - Install seismically-actuated shut-off valves on vessels containing large liquid UF6 inventories
 - Partition Cold Traps and Distillation processing areas within the FMB to provide confinement
 - Install elevated vent stack and in-floor ventilation grids
 - **Life-safety protection for administrative and other buildings**
 - Upgrade administrative building and other support facilities to protect employees and important infrastructure

Comprehensive Upgrades Planned for MTW

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Status of Restart Efforts

Honeywell

- **Recall of Honeywell Hourly employees has started**
 - Maintenance workers (some) returned mid-January
 - Recall of hourly workers as workload in plant requires
 - Nominally 1 or 2 recalls/month; recall of workers based on specific needs
- **Staffing of salaried support staff**
 - Engineers – design, procurement, construction
 - Training staff – support training and requalification
 - Regulatory Affairs team
 - Quality Assurance – internal audits and inspections of work
 - Health Physics – staffing to support radiological monitoring of personnel

Plan the work, work the plan

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Status of Restart Efforts

Honeywell

- **Capital project is progressing**
 - All elements of project in full-swing
 - Design
 - Procurement
 - Construction
 - Inspection
- **Quality Assurance plan in effect**
 - Internal audits and assessments
 - Documentation collected, monitored, reviewed
 - Deficiencies noted and corrective actions in progress
- **Maintenance**
 - Inspections and Preventive Maintenance
 - Make sure the equipment is "ready to go"

Plan the work, work the plan

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Regulatory Interactions

Honeywell

• Frequent interactions between the NRC and Honeywell technical teams

- NMSS (Nuclear Material Safety and Safeguards) team " the technical reviewers" and Honeywell project team – frequent (at least weekly) communications
- Draft RAI's (Request for Additional Information) supplied by the NMSS team – targeted to gain clarity on both sides in technical questions
- Plant visit by NMSS technical reviewers – helped clear up issues, provide reviewers with "eyes on" the plant
- Technical review scheduled at NRC Headquarters – Feb 7, 2013

• Field inspections by NRC field inspectors

- Initial field inspection week of January 14, 2013
- Next scheduled inspection week of February 7, 2013
- Anticipate roughly one/month
- Field inspections focused on Honeywell adherence to Honeywell procedures (Quality Assurance)
 - Are we installing what we plan to install, correctly using our procedures?

Continued Communication Essential

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Key Open Issues with NRC

Honeywell

- Technical Review/Approval of FMB Design Safety Margin- "Push Over Analysis"
- "Is the Margin Enough?"- NRC Policy Decision!
- NRC Formal Acceptance of 475 Year EQ Design Basis (We have verbal commitments!)
- Resolution of all RAI's (Requests for Additional Information)
 - To date – 6 sets of questions, total of 43 questions
- NRC Approval of Seismic Q/A Program and No Delays Due to Q/A Execution Issues
- Timely Startup Approval Process by NRC Hierarchy

Communication with all levels of NRC Essential

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