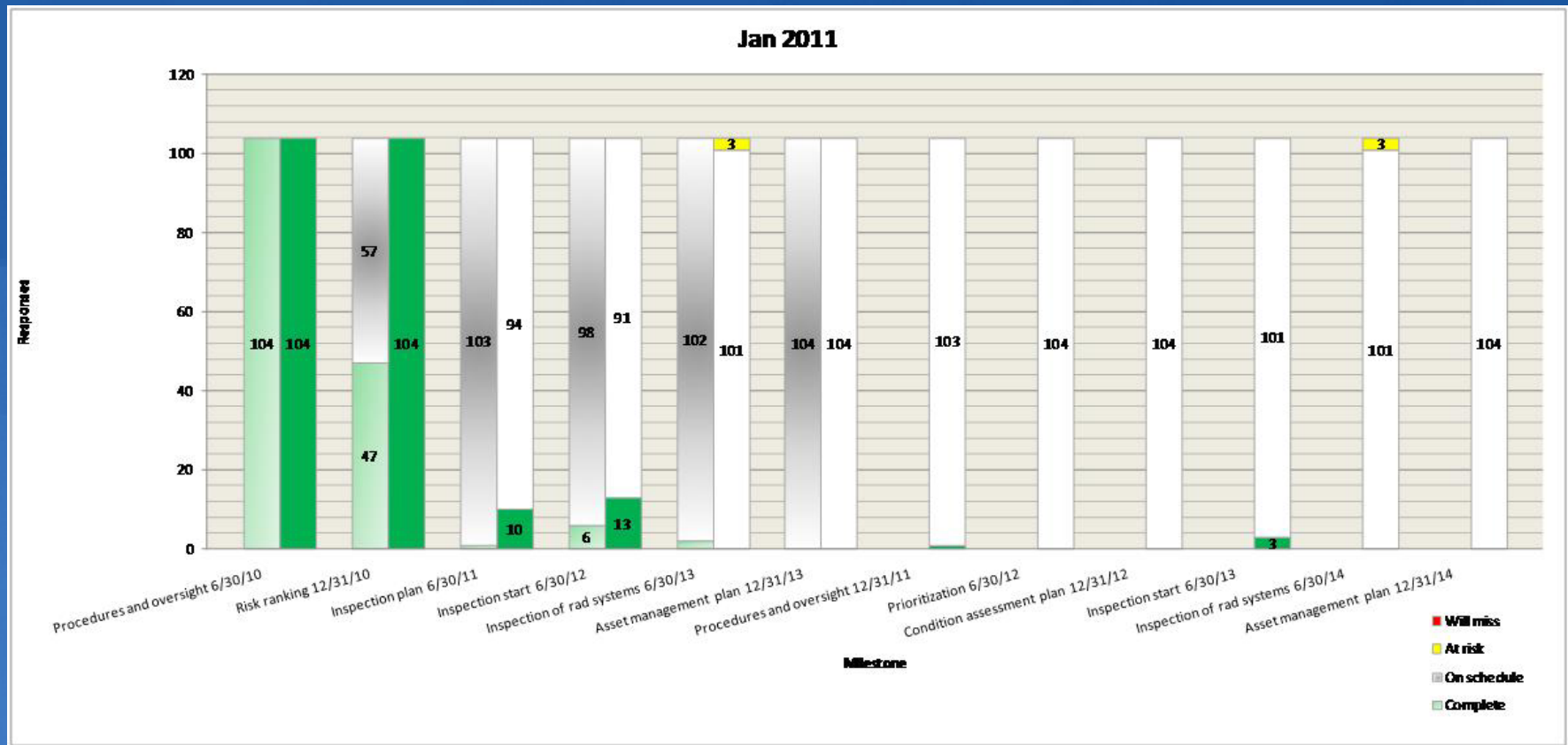


# Report to NSIAC January, 2011



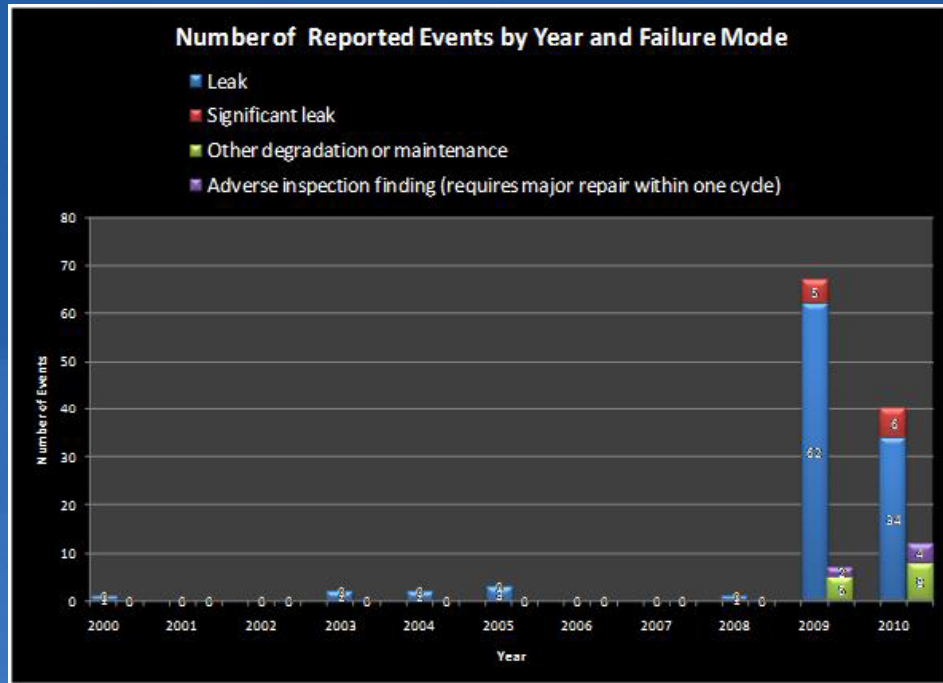
# Overall Implementation Status



# Overall Implementation Status

- All plants have met the first and second milestones
- No deviations to the Initiative have been reported
- All plants report that they are on schedule for future milestones except one utility (3 plants)
  - Inspection start is at risk pending publication of a document that provides guidance on inspection planning
- One utility reported that inspections of all of its “rad systems” was complete in July, but not complete in January
  - Utility discovered additional contaminated piping after the July 2010 report

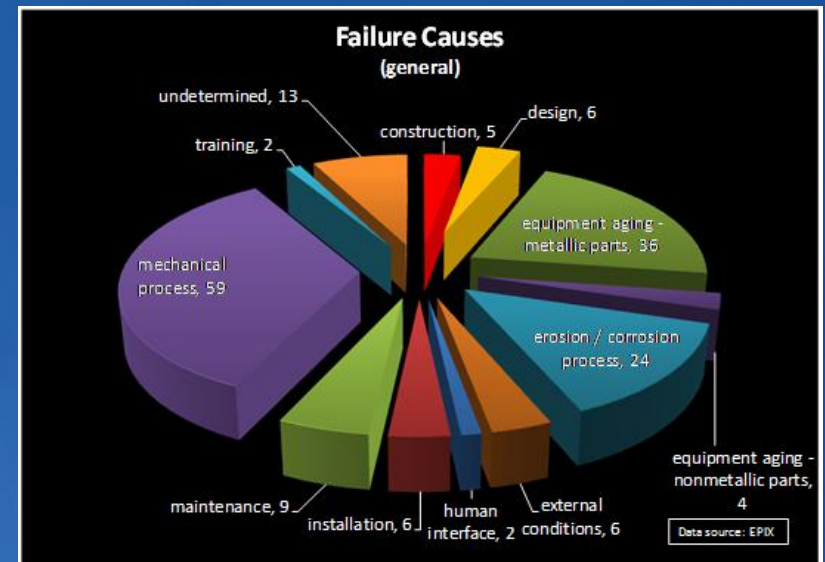
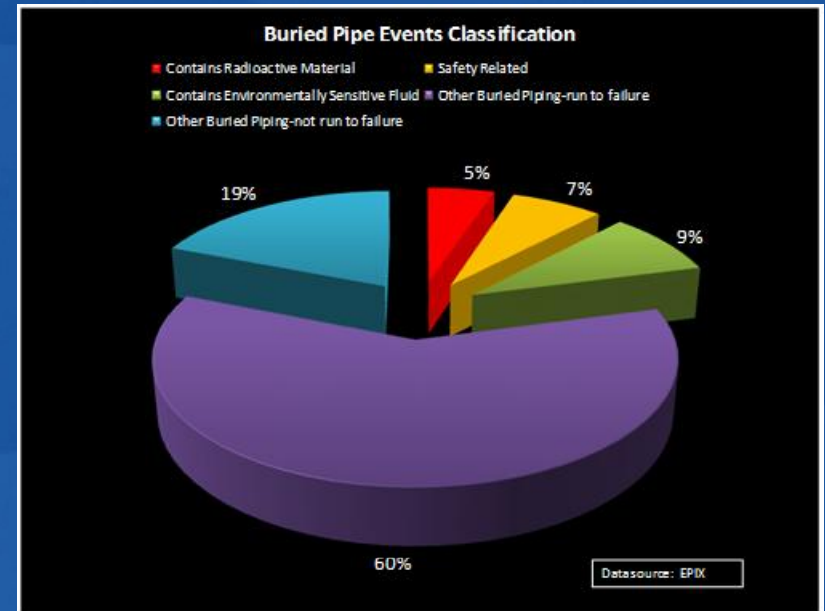
# Operating Experience



- Reported in EPIX as of early January
- Significant leaks
  - Exceed NRC or EPA limits,
  - Reportable under the Ground water Protection Initiative,
  - Result in a system or component being out of service
- Adverse inspection findings require repairs within one cycle
- Too early to trend

# Operating Experience

- The majority of leaks are inconsequential
- Significant leaks amount to about 7 to 15% of total
  - Number of these leaks was approximately the same in 2009 and 2010
- Historically, approximately 12% of leaks occur in systems that are safety related or contain licensed material
  - May be biased by data prior to 2009 when the leaks that were most likely to be reported were significant ones
- The three major reported failure causes were mechanical processes, equipment aging, and erosion/corrosion



# NDE Technology

- Buried pipe NDE reference guide issued last August (Report 1021626)
  - Describes various in-line and outside pipe NDE technologies
- Inspection methods and delivery tools are available; however vendors
  - Have limited resources,
  - Are in demand at other industries,
  - Have limited experience in the nuclear industry.
- Challenges:
  - Developing appropriate implementation methods
  - Documenting technological capabilities and processes
  - Aggressive inspection schedules
  - Field demonstration of technologies
- Buried Piping Industry Group (BPIG) working on issues

# Overall Observations

- Implementing Underground Piping and Tanks Initiative as scheduled
- Keep focus and funding on inspection tool development
- Importance of the “reasonable assurance document
- Communicate inspection schedules to allow resource planning
  - Communication will occur through BPIG.
- Holding a Underground Piping and Tanks Integrity - Ground Water Protection Initiative coordination workshop
  - September 2011
  - Enhanced Inspection and Environmental Monitoring Initiatives