



## **NextEra Approach to Resolution of Tornado Missile Protection**

**Point Beach Nuclear Plant Units 1 & 2**

**May 1, 2018**



# AGENDA

- **Introductions**
- **Current Status**
- **Compensatory Measures**
- **Resolution Strategy**
- **Conclusion**



# INTRODUCTIONS

- **NRC**
- **NextEra Point Beach Team**
  - Steve Catron, Fleet Licensing Manager
  - Anil Julka, Reliability & Risk Manager
  - Eric Schultz, PB Licensing Manager
  - Lori Christensen, PB Licensing Project Manager



# CURRENT STATUS

- **Background**
- **Initial Nonconformance Declaration (U1 & U2)**
  - Turbine Driven Auxiliary Feedwater Pumps (TDAFPs) for unprotected steam supply piping
- **Extent of Condition (U1 & U2)**
  - TDAFPs for unprotected turbine exhaust stacks
  - Main Steam Isolation Valves, Main Steam Safety Valves, Atmospheric Dump Valves
  - Emergency Diesel Generator (EDG) Fuel Oil Storage Tank T-175B

*Station implemented enforcement discretion guidance documents  
EGM 15-002 and DSS-ISG-2016-01*



# COMPENSATORY MEASURES

- **Immediate Compensatory Measures**
  - Per DSS-ISG-2016-01 guidance
- **Comprehensive Compensatory Measures**
  - Procedurally controlled measures
  - FLEX equipment sharing
- **Other Discernable Changes from Original Station Design**
  - FLEX implementation
  - Station modifications (design basis and beyond design basis)

*Compensatory measures in place; original station design improved over time and enhanced ability to mitigate a tornado missile event*



# RESOLUTION STRATEGY

- **The resolution strategy is to validate that Tornado Missile is not a significant hazard for the site**
  - LAR submittal and approval will clear nonconformances
- **Options Considered for LAR Development**
  - TMRE (Point Beach was a pilot plant)
  - Site-specific High Winds PRA (RG 1.200, Rev. 2)
- **Selected Option**
  - Site-specific High Winds PRA (RG 1.200, Rev. 2)

*License Amendment Request will screen out tornado missile as a significant hazard for the site*



# RESOLUTION STRATEGY

- **Site-specific High Winds PRA**
  - Industry leader
  - Developed in 2013
    - Updated to reflect as-built/as-operated plant

*Site-specific High Winds PRA is peer-reviewed to ASME Standard and Regulatory Guide 1.200, Revision 2*



## CONCLUSION

- **Entered Enforcement Discretion Process per EGM 2015-002**
- **License Amendment Request submittal based on Site-Specific High Winds PRA**
  - Site PRA concludes Tornado Missile is below the regulatory threshold in the Standard Review Plan and screens out as a significant hazard
- **Plan to submit LAR in second half of 2018**

*License Amendment Request will screen out tornado missile as a significant hazard for the site*