

# Prairie Island Indian Community Experience with Fukushima Tour



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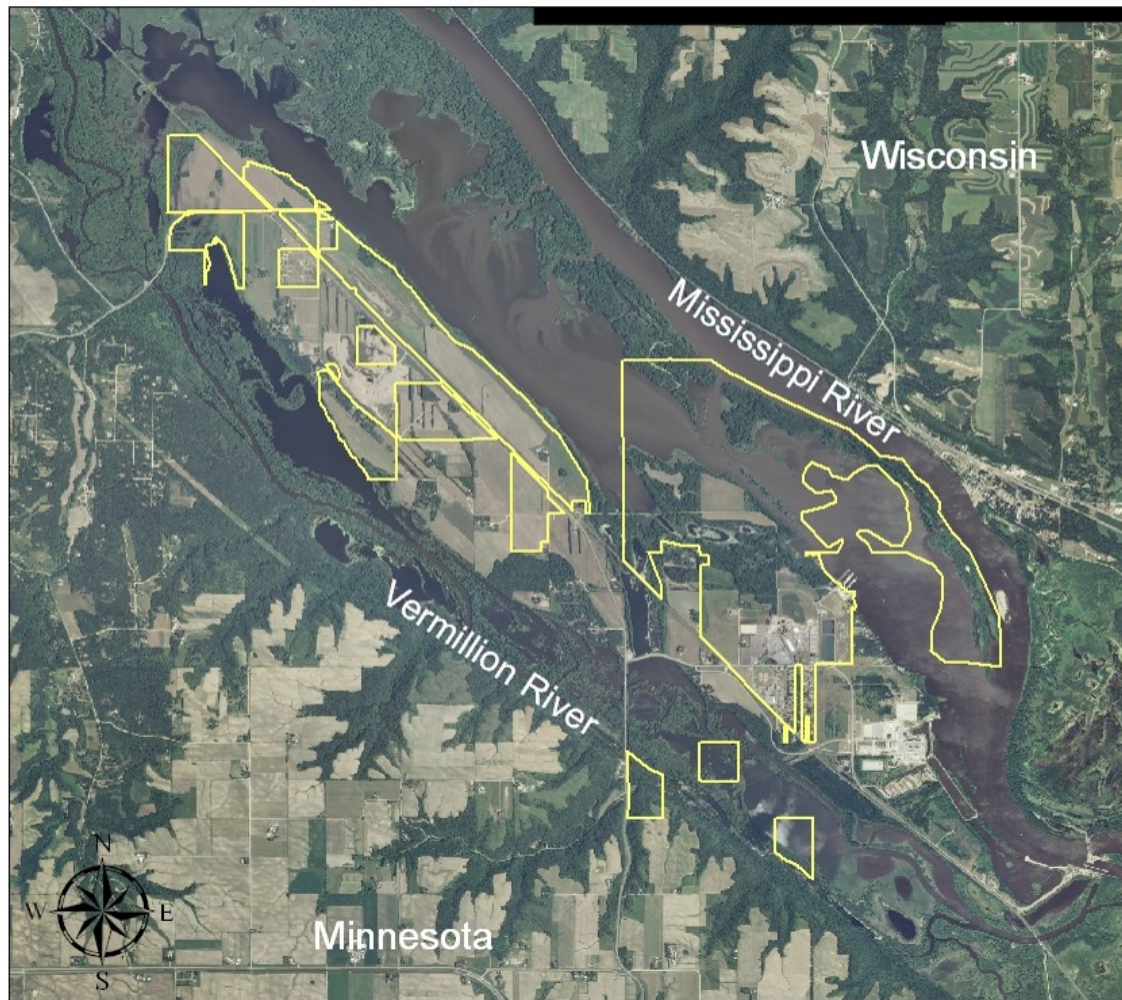
2014 North American ISOE ALARA Symposium

# Prairie Island Indian Community Background

- Federally recognized tribe
- 5 member elected Tribal Council
- Approximately 3,200 acres tribal land
- Sovereign nation with government departments: Health, Environmental, Public Safety, etc.
- Prairie Island people *are* descendants of *Mdewakanton* Band of Eastern Dakota – “Those who Were Born of the Waters”
- Area called Prairie Island, *Tinta Wita*, traditionally utilized as a temporary summer encampment due to its richness in aquatic and terrestrial resources

# Location

## Prairie Island Indian Community



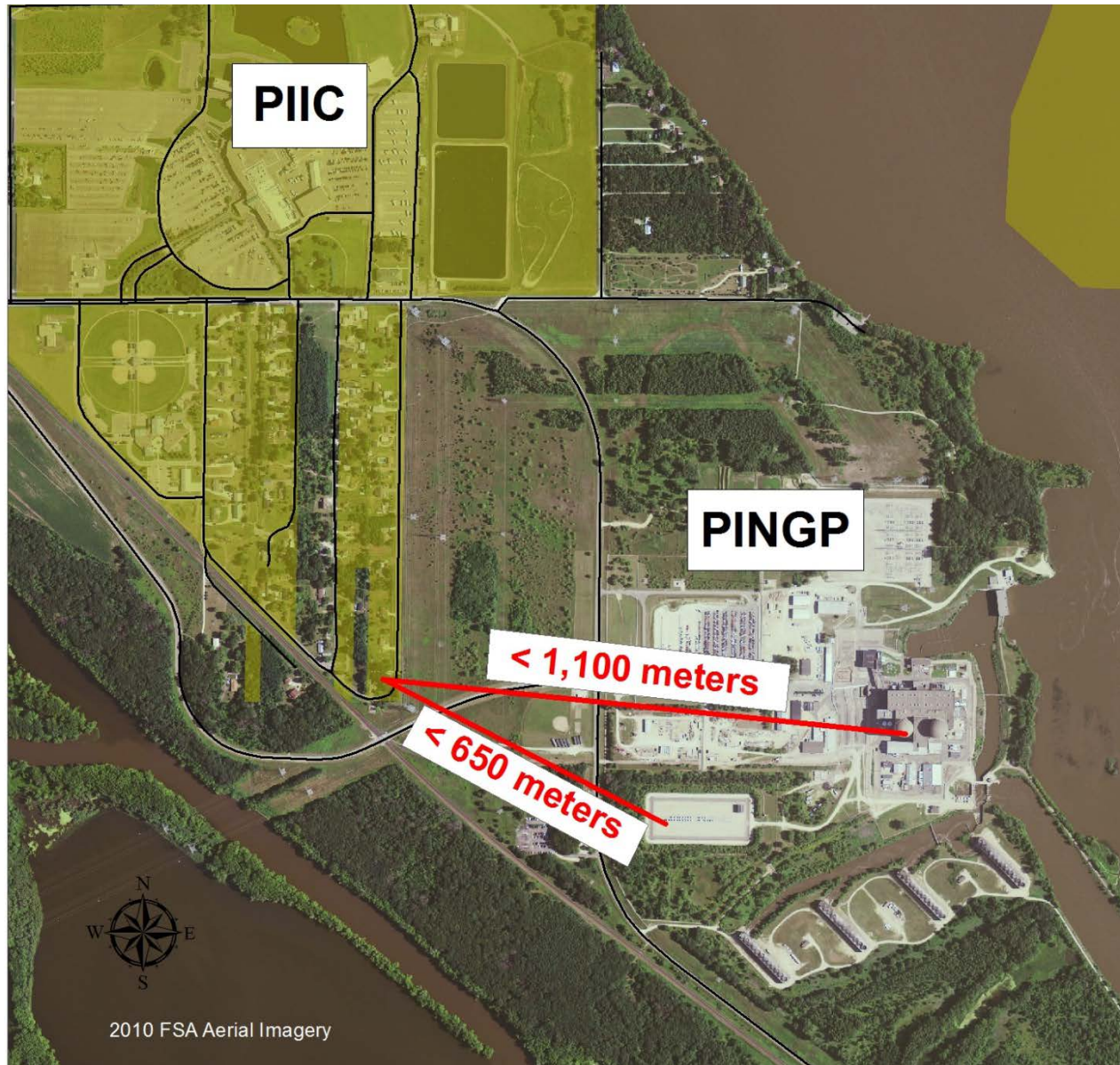


# Culture & Heritage





# Relation to Prairie Island Nuclear Plant



# PIIC Causes for Nuclear Interest

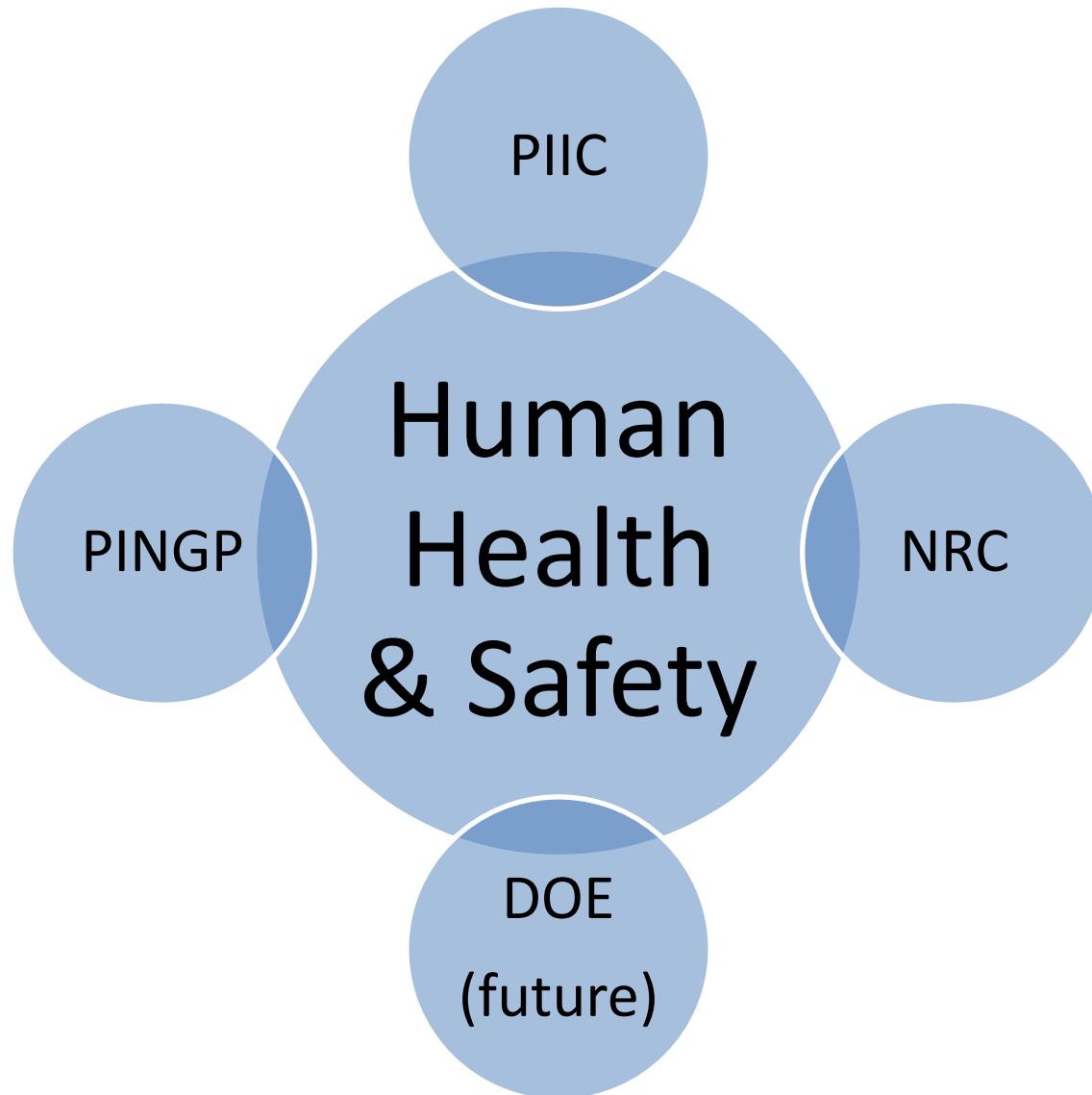
- Location, location, location
- Increasing vulnerability to extreme flooding
- Limited emergency exit routes subject to complete blockage by commercial freight trains
- Responsible for evacuation of minimum 5,000 residents, employees, and visitors during incident with limited emergency response personnel and resources
- Spent fuel storage creates multitude of long term issues that will affect *Seven Generations*



# Extreme Flood Risk – 500 year Flood



# PIIC Involvement & Relationships





# Purpose & Goals of Fukushima Visit

- Investigate lessons learned
- Collaborate with interested parties
- Increase protection of health & safety of Community
- Share a non-nuclear affiliated perspective as a representative of general public, local government, tribal, and stakeholder
- Understand local effects of radiation exposure to better prepare for an incident
- Continue to bridge gap between Nuclear entities, the public, and surrounding communities

# 2013 Site Visit to Fukushima Daiichi NPS





# Orientation Before Tour



# TEPCO Public Relations Update





# Getting Ready to Board Bus





# Start of Bus Tour



# Vehicles Used on Site





# Seismic Isolation Building





# First Responder Vehicles Used After Backup Power Failure



# Large Water Tanks to Store Cooling Water From Spent Fuel Pool



# Remote-Operated Construction Cranes





# Unit 4 with Containment Installation



# Unit 4 Containment Construction With Visible Hydrogen Blast Damage





# Close Up of Damage





# Monitored Readings During Bus Tour





# Flood Protection Berm – Note Height of Ocean Water During Tsunami





# Down Power Line for Offsite Power





# Getting Ready for Post Tour Body Scans



# A Successful Tour of Fukushima



# Lessons Learned From Fukushima Tour

- Unforeseen & rare natural disasters are possible:
  - Include unlikely disasters in emergency plans
- Emergencies have potential for unknown devastation:
  - Expand the scope of emergency preparations
  - Build more redundancies into emergency plans
  - Improve off-site backups
- Fears of public is larger problem than anticipated:
  - Industry's responsibility to initiate repairing trust
- Surrounding community affected more than expected



# Goals For The Future

Continue collaboration w/PINGP



Centralized depository  
of spent fuel



Improve emergency response capabilities



# Goals For The Future cont.

- Continue collaboration w/PINGP & others in Industry to insure fullest protection of human health & safety, the environment, natural & cultural resources
- Enhance emergency evacuation exit opportunities
- Improve incident notification communications
- Insure safety of Community and visitors & a quick safe exit in case of an incident
- Increase Community understanding of nuclear industry to develop stronger trust in our neighbors
- Expand environmental monitoring program and integrate with emergency response planning



# Questions?

