



# Status of Coquí Mo-99 Medical Isotope Production Facility

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# Current Situation

- U.S. depends on foreign imports of Mo-99
- Supply chain risk/age of current reactors could delay diagnosis and treatment for heart disease and cancer



# Coquí's Goals

- Develop and operate the first domestically dedicated Mo-99 and radioisotope pharmaceutical production facility utilizing proven technology that relies on LEU thus:
  1. Providing a continuous source of Mo-99 for the world's nuclear medicine industry;
  2. Advancing nuclear medicine by establishing a state of the art production facility;
  3. Contributing to national security by reducing the need for exports of HEU; and
  4. Bringing much needed employment, new sources of industry and economic development.

# Conceptual Medical Isotope Production Facility



# Facility Overview

- The MIPF consists of:
  - twin nuclear reactors that operate at less than 10 MW
  - a radioisotope processing plant
  - a waste conditioning plant
- LEU targets will be fissioned in the reactors, and then targets will be taken to the processing cells where Mo-99 will be extracted
- Approximate facility cost: \$250 million

# Site Description



- Alachua, FL
- ~25 acres in Progress Corporate Park
- Other surrounding land is agricultural/state park
- Closest major population center is Gainesville, 10 miles SE

# Site Investigation



Geotechnical  
and  
Hydrogeological  
Boring



Geophysics



Heritage Tree  
Identification



Ecology  
Resource Survey

# Other Site Research/Fieldwork

- Outreach to tribal governments
- Socio and demographic data
- Climate and weather
- Cultural resources survey





# Community Outreach

- Coordination with county, local, state government, Chamber of Commerce and University of Florida



# Community Impact

- Construction
  - 1,824 jobs
  - \$246 million total output to local economy
- Operations
  - 285 jobs
  - \$31 million total output annually



# Licensing

- Preliminary Safety Analysis Report (PSAR) and Environmental Report (ER), to be submitted to NRC by middle of 2015
- Construction permit issued by NRC following approval of PSAR and ER

# Conclusion

- Coquí is working quickly to ensure a reliable, secure domestic supply of Mo-99 using proven technology
- Questions?

