

ATUCHA I NPP - Emergency drill practice

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Abstract

Atucha I NPP performs an Emergency Drill Practice once a year.

Its main goals are:

- Fulfill the requirements of the Argentine Nuclear Regulatory Authority (ARN) regarding Atucha I NPP's Operating License.
- Fulfill the commitment with the community regarding the safe and reliable operation Atucha I NPP
- Verify the response of the Civil Organizations, Security Forces, and Armed Forces, as well as the correct application of the Emergency Plan
- Perform the "General Alarm Drill" periodic control.
- Perform a re-training of the members of the Security Advisor Internal Committee (CIAS) on the Internal and External Aspects of the Emergency Plan and on the related procedures.
- Test the Emergency Communications System.

New goals are added every year, considering the Drill's scope.

This drill comprises two different kinds of practices: Internal practices (practices in the station, with our personnel) and external practices (practices outside the station with governmental organizations)

Internal practices comprise:

- Internal and external communications practices
- Acoustic alarms
- Personnel gathering in the Meeting Points
- Safety of selected Meeting Points
- Personnel count; selective evacuation
- Yoduro Potassium pills distribution
- CICE (Internal Group for Emergency Control) Coordination

External practices comprise:

- Nuclear Regulatory authority
- Argentine Navy, Comando Area Naval fluvial, Base Naval Zárate
- Lima firemen
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- Municipal Civil Defense (Zarate and Lima)
- National Guard, Escuadrón Atucha
- Zarate Regional Hospital
- Lima Police Department
- Zarate Police Department
- Argentine Coast Guard, Zarate
- Local radios: Radio FM Libre, FM el sitio

- First Aid clinic

The following activities are performed together with the aforementioned organizations:

- Formation of an “Operative committee”
- Evacuation of citizens in a 3 km radio
- Control of every access to Lima
- Control of River Parana de las Palmas
- Safe location for affected citizens
- Yoduro Potassium pills distribution
- Safety plan for Lima and adjacent islands
- Reception of evacuated people
- Wounded people triagge
- Derivation of contaminated wounded people. Decontamination
- Social Assistance for affected people
- Nuclear Regulatory inspection of tasks and procedures
- Radiological monitoring of the contaminated zone

Once the drill is over, the procedure is jointly analyzed by the participants.

After the meeting the corrective actions necessary in case of a real emergency are set.

Keywords: nuclear plants, emergency response, drills