

IRPA 12

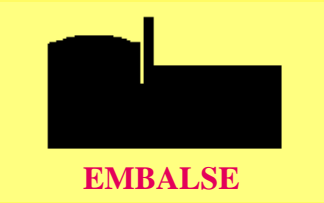
October 2008 – Buenos Aires

NATIONAL RECORDING SYSTEM OF RADIATION WORKERS:
Centralized dosimetry file of workers (Training, Doses, Medical
Examinations, Whole Body counter results, Validity). Authorized entry.
Obligations to be fulfilled by the Operators.

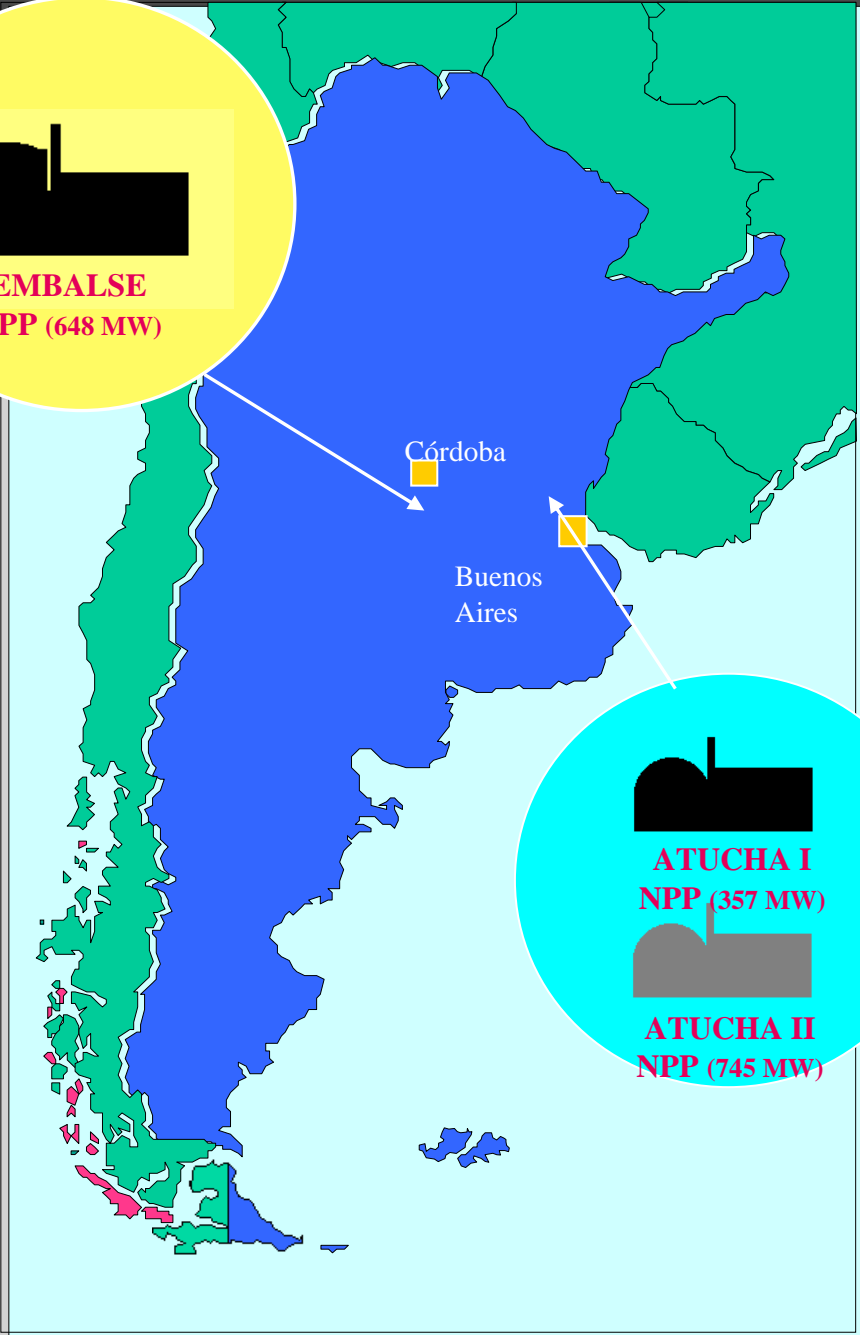
ATUCHA NPP

**DOSIMETRIC SYSTEM – PERSONNEL
DOSE CONTROL**

**Alejandro SANDA
RP & SAFETY MANAGER
ATUCHA NPP**



EMBALSE
NPP (648 MW)



Argentina



ATUCHA I
NPP (357 MW)

ATUCHA II
NPP (745 MW)

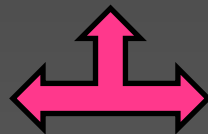
ATUCHA PERSONNEL DOSE CONTROL:

- EPD (ELECTRONIC PERSONAL DOSIMETER)
- TLD (THERMOLUMINESCENT DOSIMETER)
- INTERNAL DOSE: - URINE SAMPLE
- - WHOLE BODY COUNTER

INDIVIDUAL DOSE

**ELECTRONIC DOSIMETERS
EPD**

**THERMOLUMINESCENT DOSIMETERS
TLD**



300 EPD Siemens MK1
300 EPD Thermo MK2

2 HARSHAW READERS
MODEL 6600 PLUS AUTOMATIC

3 SEMICONDUCTOR
DETECTORS
Hp - Hs DOSE

LiF 7 - LiF 6
WHOLE BODY
GAMMA /BETA /NEUTRONS

WHOLE BODY
NEUTRONS DOSE

TLD 700
RINGS FOR EXTREMITIES

DOSIMETRIC SYSTEM “SDA”

- **CONTROL & MANAGEMENT INDIVIDUAL AND COLECTIVES DOSES**
- **ACCESS CONTROL FOR RADIOLOGICAL BUILDINGS**
- **MANAGEMENT OF: ELECTRONIC DOSE + TLD + INTERNNAL DOSE**
- **GUARANTEE TO FULLFIL DOSES LIMITS AND RESTRICTIONS**
- **ALLOW TO MANAGE IN TRANSIT PERSONNEL DOSE**
- **ON TIME (REAL TIME) DOSE INFORMATION**
- **ALLOW TO PLAN AND PREFORM ALARA TASKS**

SDA

INTEGRATE :

**OPERATIVE AND MAINTENANCE ACTIVITIES
INDIVIDUAL DOSE
COLLECTIVE DOSE
HISTORIC DOSES
ALARA RESOURCES
DOSIMETRIC MEASURES
NUCLEAR PP SHARE INFORMATION
ON LINE INFORMATION
ACCESS CONTROL**

IT IS A WHOLE DATA BASE

THIS DATA BASE IS AVAILABLE FOR EVERYBODY IN THE PLANT

PHYSICAL PROTECTION PERMIT

RADIOLOGICAL AREA ENTRANCE

MEDICAL CONDITION

TRAINING COURSES

WBC COMPLETE
ORINE SAMPLE

WORKER AVAILABLE
FOR RADIOLOGICAL AREA

WORKER

TLD

EPD

WORKER ID NUMBER
TLD NUMBER
WORK PERMIT NUMBER

EPD
READER
MACHINE

DOSE CREDIT IS ENOUGH ?
ANNUAL & QUINQENIAL
LIMITS ?

ON TIME DOSE

SDA

SET EPD
ALARMS

ALLOWED TO
ENTRANCE IN
RADIOLOGICAL
AREA

REPORTS

Persons:

Personnel available for Radiological Area
Monthly Doses (EPD and TLD)
Annual Doses with personal datas
On Time Dose
On Time Dose Credit

Work Permits:

Daily access
Monthly Doses
Dose for Departments

Departments:

Doses (day and month)
Following inside Department

Collective Dose by day, month, year
Persons near Dose Limits
Tritium samples

**THANK YOU FOR
YOUR
ATTENTION**