







Luz del Sur S.A.A.

Electric Utility (Distribution and Transmission)
South part of Lima

• Number of customers: 1'303.354

Concession área: 3.692 km2

• Number of workers: 814

Number of operational transformers: 8786



GEOGRAPHICAL LOCATION OF LUZ DEL SUR









MANAGEMENT OF PCB'S WASTES IN LUZ DEL SUR

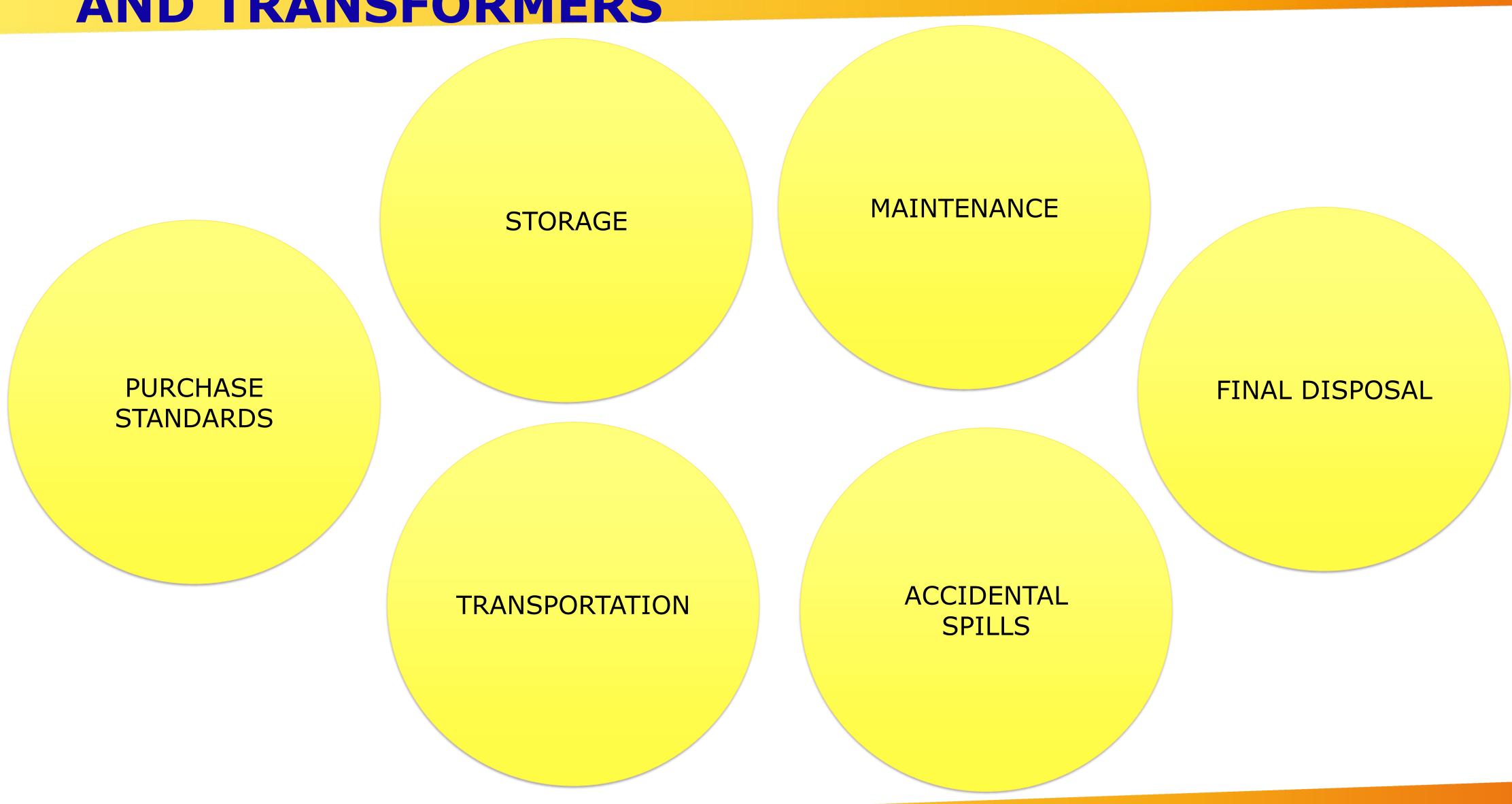


ACTIVITIES TO ELIMINATE PCB'S





PROCESS IN THE LIFE CYCLE OF DIELECTRIC OIL AND TRANSFORMERS





CONTROLS ON EACH PROCESS

PURCHASE STANDARDS

Free of PCB's

STORAGE
Labeling
Containment system:
-Secondary containment
-Trays

TRANSPORTE

Authorized Vehicles

MANTENIMIENTO

PCB's Sampling

EMERGENCIA AMBIENTAL

PCB's Sampling Contingeny Plan for spills

DISPOSICON FINAL

Decholorination Exports of PCB's



STORAGE - REQUIREMENTS

- Restricted access
- Oilproofed floor
- Ceiling for all the area
- Secondary containment and gutters
- Proper ventilation
- Properly inspect, label and seal all drums and transformers
- Contingency Kit for spills
- Fire extinguisher
- Loading and unloading operations áreas, and ensure enough aisle space.







STORAGE OF CONTAMINATED DRUMS AND TRANSFORMERS





ALL DRUMS USING TRAYS Y LABELED



PERSONAL PROTECTIVE EQUIPMENT (PPE)

PPE for:

- Sampling
- Handling contaminated oil and transformers
- Handling leaks and spills
- Soil Remediation
- Dechlorination
- Export's activities







DECHLORINATION WITH SODIUM

Reduces PCB's concentration on contaminated oil



Through the chemical reaction of chlorine and sodium, PCB's are broken, the result are salt and a polymer



Our goal: To achieve concentration of less than 50 ppm of PCB's





EXPORTS OF PCB'S





PROPER STORAGE OF CONTAMINATED OIL AND TRANSFORMERS



EXPORTS OF PCB'S

TRANSPORTATION OF CONTAMINATED OIL AND TRANSFORMERS AND A UNIT FOR CONTINGENCY



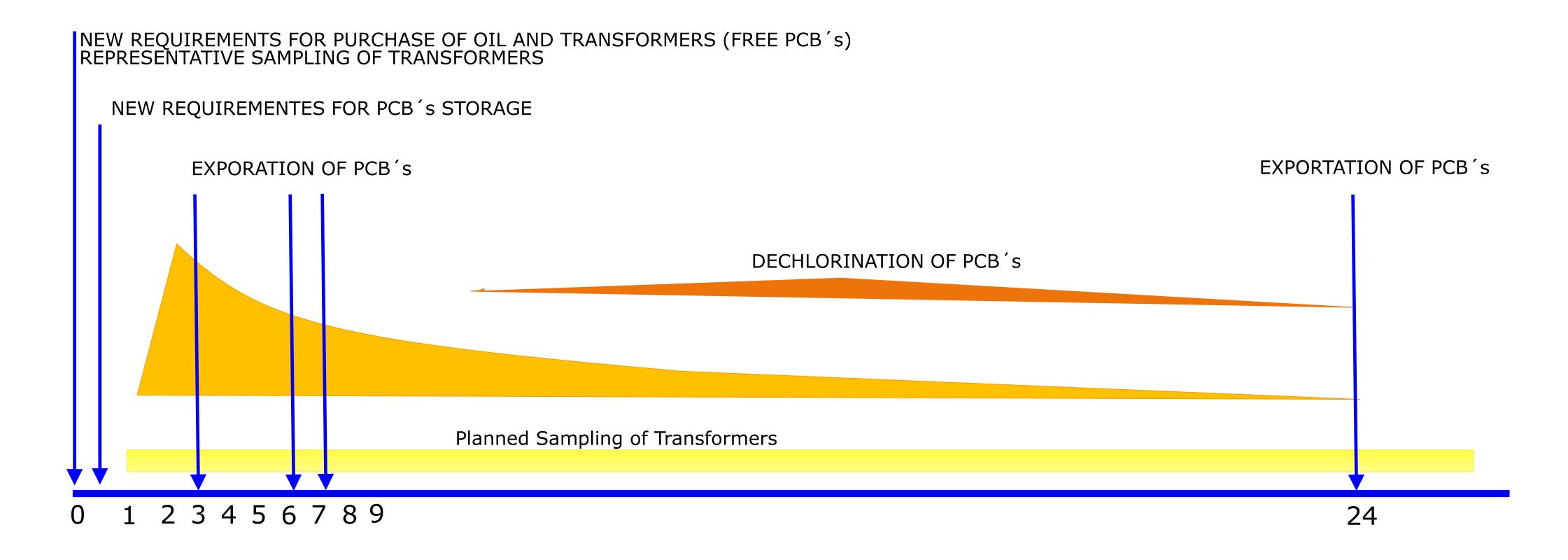


EXPORTS OF PCB'S

AÑO	TRANSFORMERS (Tn)	OIL (Tn)	TOTAL (Tn)	MUS\$
2003	16.8	14.2	31.0	125.7
2006	0.0	23.3	23.3	93.5
2007	19.7	9.4	29.1	116.9
TOTAL	36.5	46.9	83.4	336.2

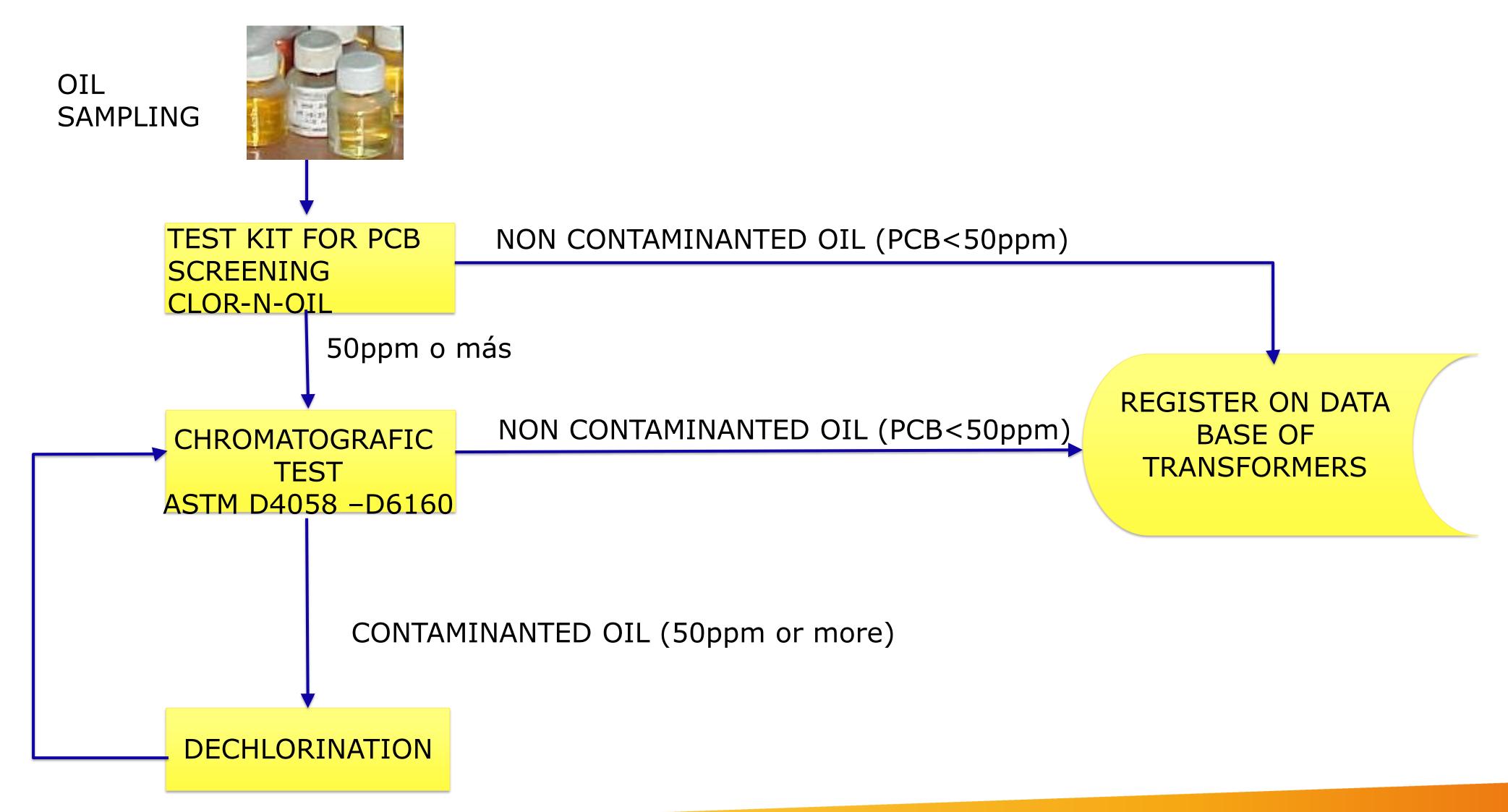


TIME OF LINE OF ALL ACTIVITIES REGARDING PCB'S





DIELECTRIC OIL SAMPLING FLOW





ALL THE ACTIVITIES ON PCB'S

IDENTIFICATION

- 1. REPRESENTATIVE SAMPLING OF TRANSFORMERS
- 2. PLANNING SAMPLING OF TRANSFORMERS
- 3. INVENTORY: NEW DATA BASE OF PCB's TESTS

CONTROLS PREVENTION

- 1. NEW REQUIREMENTS FOR PURCHASING OIL, TRANSFORMERS (FREE PCB's)
- 2. NEW REQUIREMENTS ON MAINTENANCE: PCB's TEST
- 3. NEW REQUIREMENTS FOR FINALN DISPOSAL: PCB's TEST
- 4. NEW PROCEDURES:
 - OIL SAMPLING, SOIL SAMPLING
 - NEW CONTROL ON OILS
 - NEW STORAGE REQUIREMENTS FOR PCB's
 - NEW REQUIREMENTS ON TRANSPORTATION OF PCB's
 - FINAL DISPOSICIÓN FOR PCB's
- 5. CONTINGENCY PLAN FOR LEAKS AND SPILLS
- 6. TRAINING OF WORKERS ON PCB'S

ELIMINACION

- 1. DECHLORINATION
- 2. PCB's EXPORTS



