

Civil Protection — Meeting Minutes

Tank Supply, Deployment and Water Quality

PIC Project • Emergency Water Supply System

1. Tank Supply

1.1 Decisions Taken

Key decisions regarding tank filling and water inlet:

- **Direct connection** — to EPAL public network for filling and water distribution.
- **Water inlet** — located at the top of the tank.
- **Supplementary supply** — possible via tanker trucks.
- **Tank cap** — compatible with Storz-type connection.

2. Tank Locations

2.1 Context

- **Estimated population served** — ~600,000 people.

2.2 Decisions Taken

Distribution across:

- 86 emergency points in Lisbon
- +5 additional points (to be defined/announced)
- Points in Monsanto to support fire-fighting (location yet to be defined)
- Additional portable tanks under consideration

3. Water Disposal from Tanks

3.1 Status & Actions

Note: Status: To be defined / under study.

Actions to develop — analyse drainage solutions:

- Integration with existing drainage basins
- Possible reuse (e.g. irrigation, urban cleaning)

4. Water Distribution (Deployment)

4.1 Decisions Taken

Water outlet via:

- Standard tap

- Bottom gravity outlet

4.2 Operating Modes

Emergency situation:

- **Authentication system** — required for access.
- **Controlled by Civil Protection operatives** — (specific access only).

Non-emergency situation:

- **Normal water access** — (e.g. supply failure in care homes).
- **Gravity outlet** — (standard mode).
- **Top connection available** — for fire-fighting use.

[!] Open question: Verify feasibility of suction via Storz connection (hose).

5. Power Supply

5.1 Preliminary Decision

- Connection to the electrical distribution network.

6. Monitoring and Water Quality

6.1 Ideas Under Development

To evaluate:

- More cost-effective ATP water quality testing solutions

7. System Structure and Safety

7.1 Ideas Under Analysis

Spring system:

- Seismic impact mitigation
- Height adjustment to ensure adequate pressure / gravitational force

8. Summary — Decisions and Next Steps

Confirmed

- ✓ Direct EPAL connection + top inlet confirmed.
- ✓ 86 + 5 distribution points defined.
- ✓ Storz-compatible cap (tanker truck compatible).
- ✓ Electrical grid connection (preliminary decision).
- ✓ Gravity outlet as standard operating mode.

To Do

- Define water disposal / drainage solution.

- Validate Storz connection for suction (fire-fighting).
- Locate tank points in Monsanto.
- Explore more cost-effective ATP water quality testing solutions.

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