Holtec system designed to corrode and crack

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- Canister walls gouged when lowered or raised in storage cavity (NRC)
- No seismic evaluation for partially cracked canisters (NRC, SCE)
- Short-term risk for through-wall cracks (DOE)
- Cannot inspect or repair cracks (DOE)

Holtec President Kris Singh

"…ASME Sec 3. Class 1 has some very significant requirements for making repairs of Class 1 structures like the canisters, so I, as a pragmatic technical solution, **I don't advocate repairing the canister."**

http://youtu.be/euaFZt0YPi4

Fukushima thick casks survived great earthquake and tsunami

Swiss Solution for Thick Cask Storage

Continuous cask pressure & radiation monitoring. Roof & wall air vents cool the building.

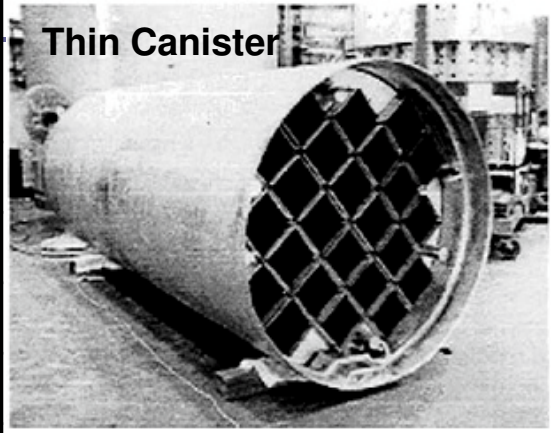
https://www.zwilag.ch/en/cask-storage-hall-_content---1--1054.html

Swiss Zwilag Hot Cell
Inspect or transfer fuel to new cask

https://www.zwilag.ch/en/hot-cell-_content---1--1056.html

10 Reasons we Must use THICK casks

Safety Features	Thin canisters	Thick casks
1. Thick walls	1/2”- 5/8”	10”- 19.75”
2. Won’t crack		√
3. Ability to repair, replace seals		√
4. Ability to inspect (inside & out)		√
5. Monitor system prevents leaks		√
6. ASME N3 cask certification		√
7. Defense in depth (redundancy)		√
8. Store in concrete building		√
9. Gamma & neutron protection	Need overpack	√
10. Transportable w/o add’l cask		√
Market leader	U.S.	World



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Recommendations

- STEP ONE
  - Use thick-wall maintainable, transportable storage casks **before** the thin canisters fail
- STEP TWO
  - Store away from coastal risks in hardened buildings
- CANNOT DO STEP TWO BEFORE STEP ONE
- There are no other options

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