



An Answer to the Crisis at Fukushima Daiichi

October 2012

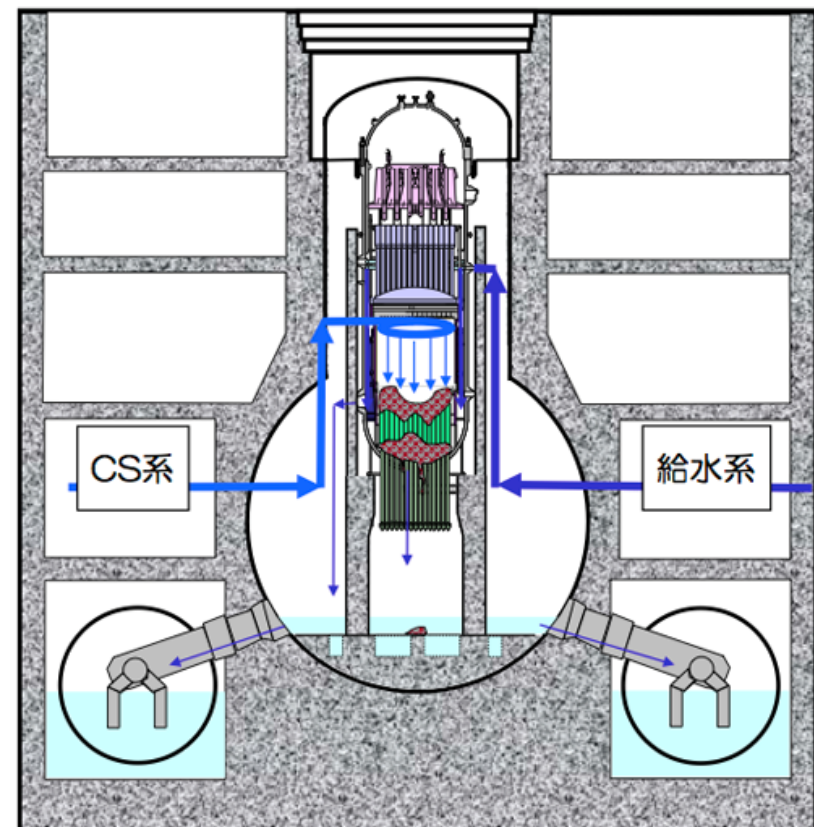
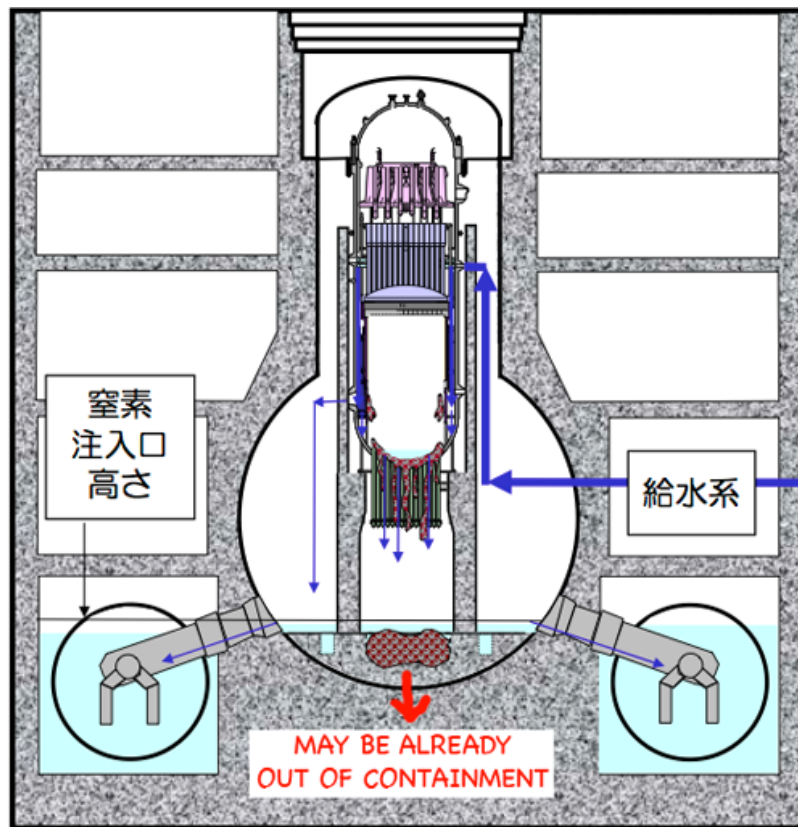
Skilled Veterans Corps for Fukushima

Disaster at Fukushima Daiichi

- 11th Mar. 2011
 - 2:46pm Earthquake hit FD
 - 3:26pm Tsunami hit FD:
All power lost
- 12th Mar. 2011
 - 6:50am High radiation at main gate
 - 3:36pm Explosion in Unit 1
- 14th Mar. 2011
 - 11:01am Explosion in Unit 3
- 15th Mar. 2011
 - 6:10am Explosion Sound in Unit 2
 - 6:14am Explosion in Unit 4



Within days, Units 1, 2, & 3 experienced **meltdowns**. Unit 4 was not operated at the time and did not experience a meltdown.



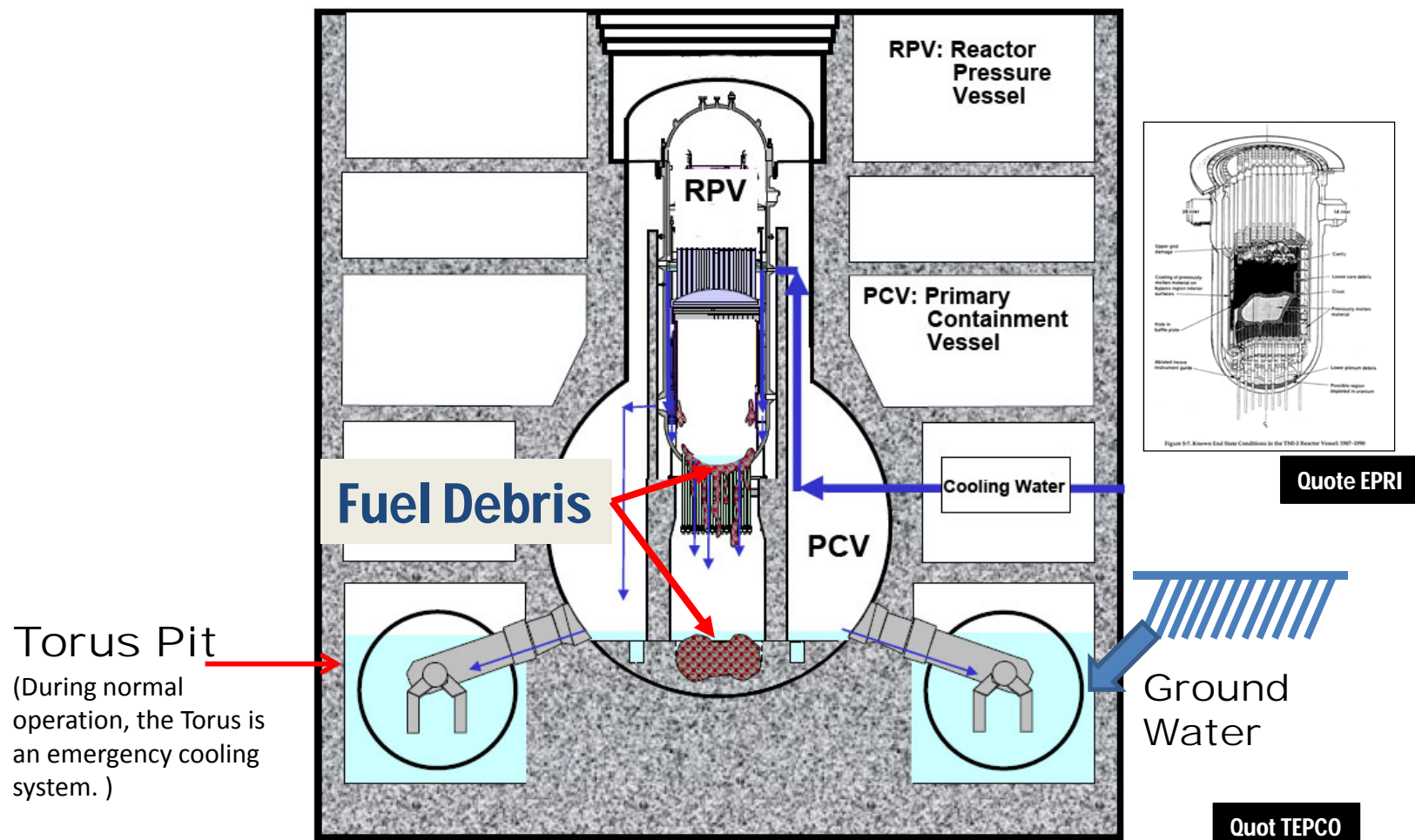
In Units 1, 2, 3 the fuel in reactor have melted through the container. They must be continuously cooled to prevent nuclear chain reaction. Heat is the greatest concern.



The soundness of housings of Units 1, 2, 3 have not been inspected because the radiation levels are too high. The risk of damage due to future earthquake to Units 1, 2, 3 is much greater than for Unit 4.



The preparation of removal of spent fuel in Unit 4 has begun before the other units because there is less radiation.

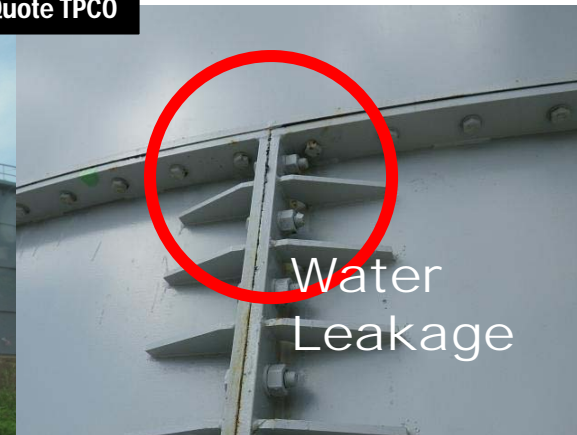


The Earthquake cracked the foundation of units 1, 2, 3 so that ground water can leak in and out. In order to avoid leakage of contaminated water into the ground, water levels in the pit must be kept lower than ground water level. Water amount increases daily.



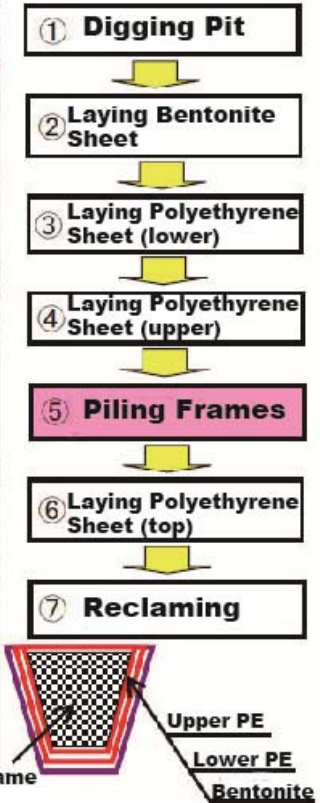
Mutsu-Ogawara Oil
Storage Co., Ltd.

Quote TPCO



Water Tanks were built to hold the excess water which is contaminated. TEPCO didn't weld the tank shell, only used nuts and bolts. The tanks are often leaking.

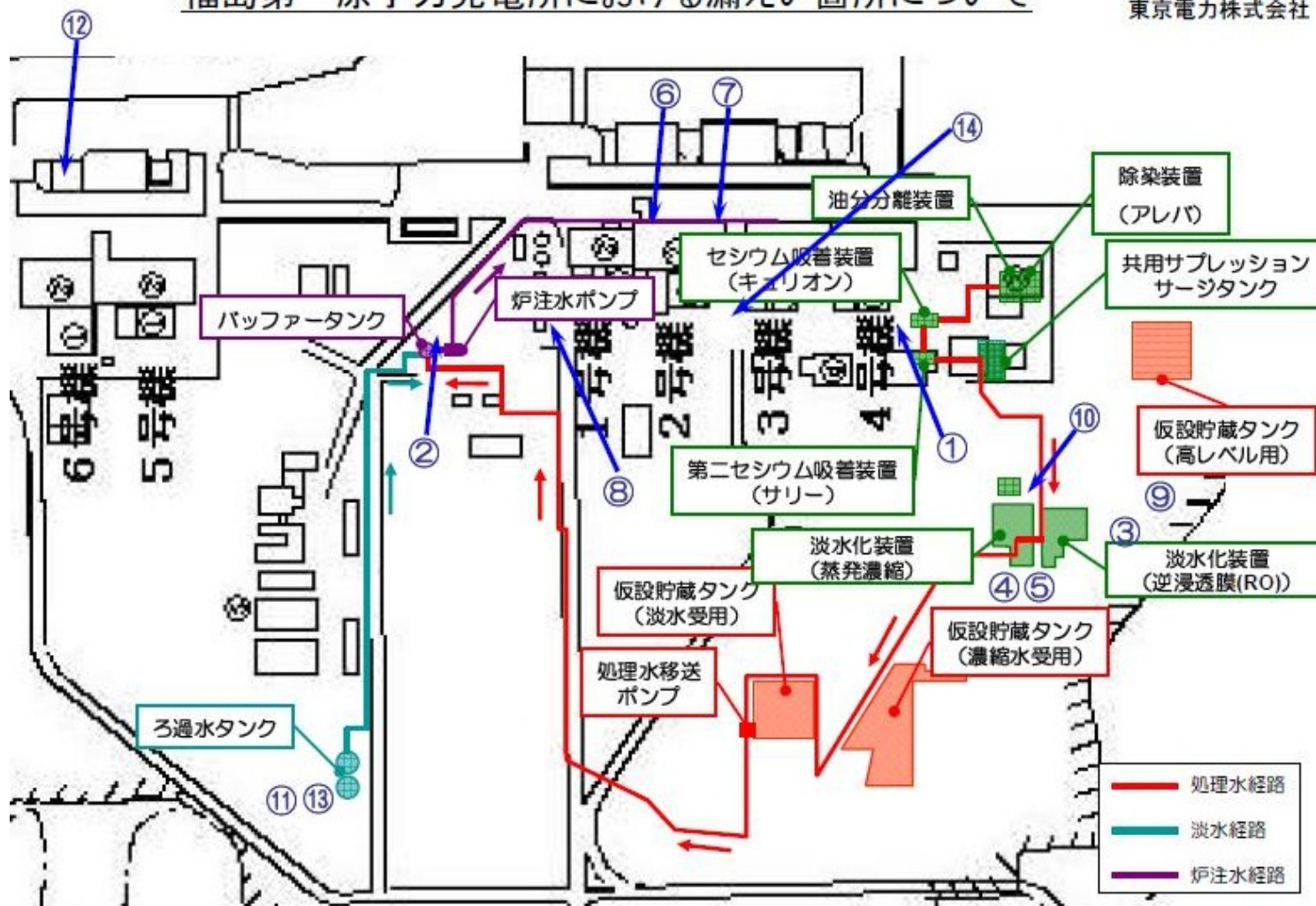




In addition to the tanks, TEPCO built underground water pool which is shielded with plastic sheets. In the case of an earthquake, the sheets may rupture and water leak into the ground.

福島第一原子力発電所における漏えい箇所について

平成24年1月29日
東京電力株式会社



Water is conducted through 2.5 miles of hoses.



Quote TEPCO



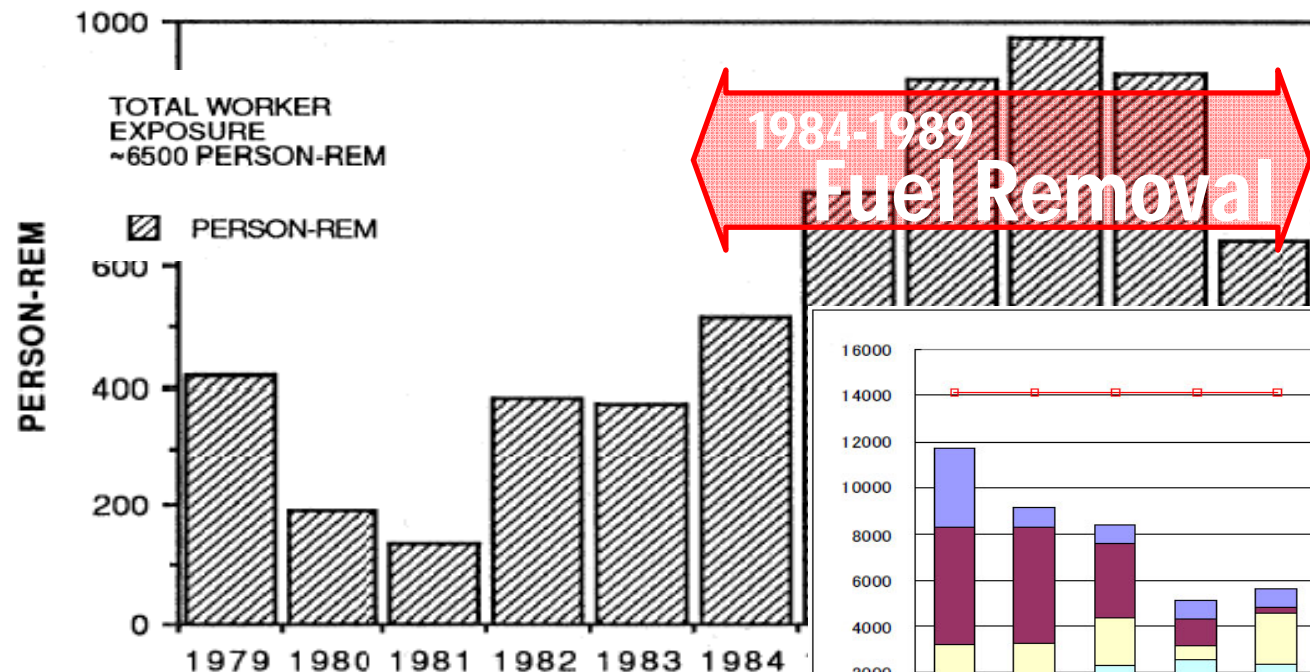
Plastic hoses damaged by freezing during last winter. Disorganization and random order of the hoses makes it difficult to trouble shoot and repair problems.



Quote TEPCO

Temporary seawall. TEPCO claims that computer models predict that this seawall will endure for 40 years withstanding tsunamis.

SUMMARY OF ANNUAL DOSES AT TMI-2



Quote EPRI

Quote TEPCO

Radiation exposure of each worker is regulated within a limit value. In case of TMI radiation exposure increased during fuel removal.

TEPCO has only planned on a workforce until 2016, which will decrease over time. Their time plan is lacking in a long term efforts, as Fuel Removal is planned to begin in 2022.

SVCF requests:

Skilled Veterans
be allowed to work
at Fukushima Daiichi
to reduce doses for
Younger Workers

- March 11, 2011 Earthquake and Tsunami
- April 10, 2011 First Appeal was delivered
- May 4, 2011 First negotiation with TEPCO
- May 24, 2011 Meeting with Mr. Hosono and TEPCO
- July 12, 2011 SVCF Inspection Team visited Fukushima Daiichi
- August 3, 2011 Proposal to Government and TEPCO

Current Situation of SVCF

- Japan Government appreciated our proposal and asked TEPCO to consider us but does not enforce.
- TEPCO has responded but does have no room for SVCF.
- We believe that the multi-layered contracting system is the major problem.

TEPCO
Fukushima
Daiichi



Dose Control for
Workers within
Fukushima
Daiichi

Workers

400 Contractors

Prime
Contractors



Taisei



Toshiba



Hitachi

Workers

Sub-
Contractors

A

B

C

D

E

F

Dose Control
by Employer not
to Exceed Limit
Value

Workers

2nd Sub-
Contractors

a

b

c

d

e

Workers

3rd Sub-
Contractors

α

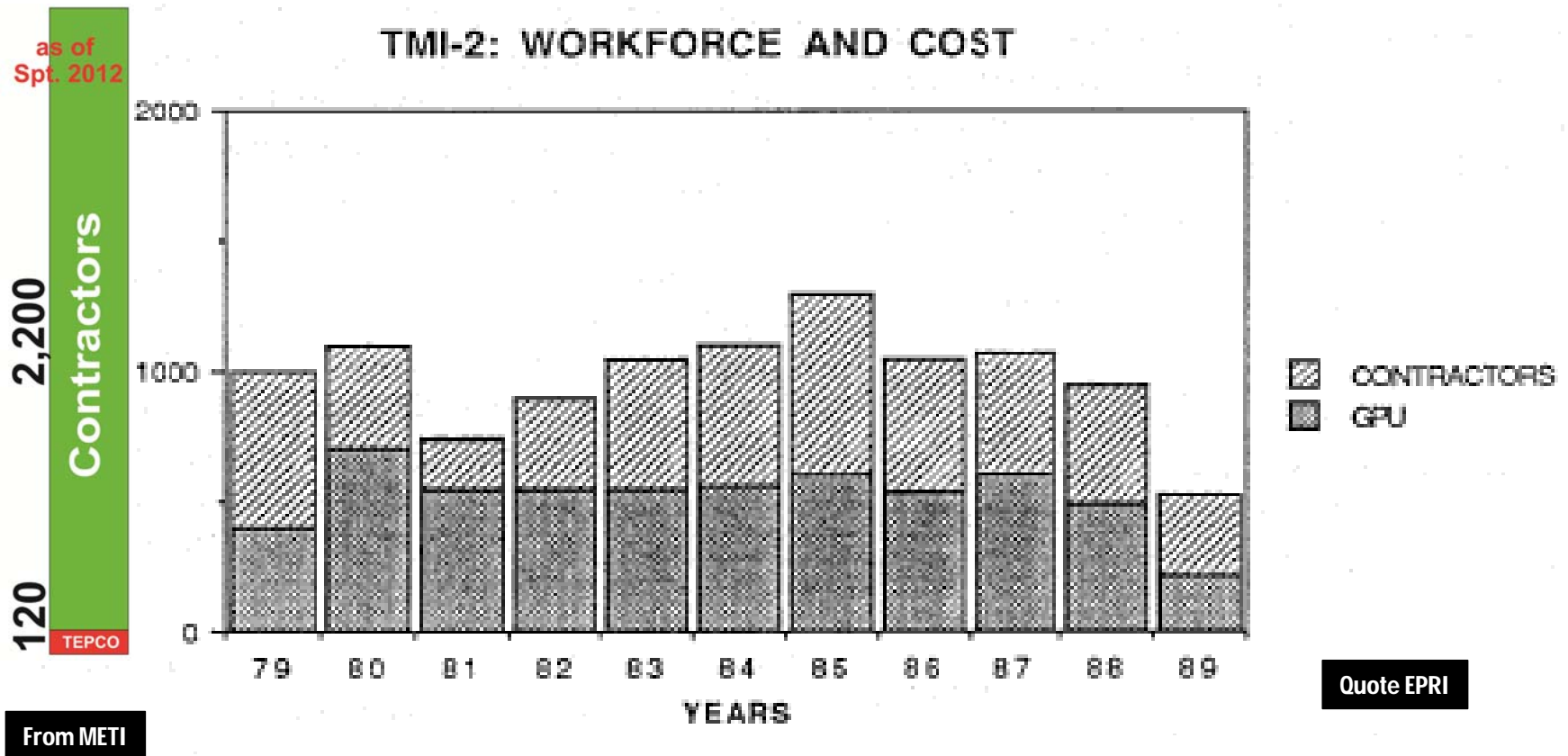
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Workers

Dose Control by
Each Worker



GPU owns TMI and
Bechtel was the project manager.
TEPCO can't control subcontractors.

SVCF requests

Cleanup of Fukushima Daiichi

Offering skills, knowledge,
muscle works, surveys, etc.

Obstacles

Industrial Structure

Multi-Layered Contracts in Traditional Heavy Industries;
Closed Nuclear Power Group (Nuclear Village)

Political Behavior

Back-passing Government; Fragmented Bureaucracy

Profit Sharing Structure

Bribed local communities;
Alliance of Central / Local Governments and Businesses

Fukushima Daiichi

Containment Work



Cleanup Work

National Project

1. Independent from TEPCO's HQ
2. Employ worldwide expertise
3. Integrated Project Management
4. International Inspection Team

TEPCO



Fukushima
Daiichi

Even TEPCO is owned by the government it is still profit oriented company, as the same case as GM

Skilled Veterans Corps for Fukushima

in USA

in Japan

in Europe

Petition, etc.

Collaboration with
FukushimaResponse

Petition, etc.

Petition, etc.

Four Appeals All Over the World

USA People &
Government

Japanese Government

EU People &
Governments

National Project for
Fukushima Daiichi

Global Problem

Containment of
Fukushima Daiichi

Global Actions

SVCF wants your help

Raise awareness:

- Contacting with politicians
- Organizing local groups
- Talking with your friends, family

1. Form a National Project Team for Fukushima Daiichi, which is independent from TEPCO's HQ
2. Utilize all of expertise in the world
3. Integrated Project Management reforming traditional multi-layered subcontract structure
4. Form an International Inspection Team