

VM 11015

Putzmeister helps Fukushima

Evaluating its Chernobyl experience
EP 1203

The better Ideas...
Putzmeister

- qualitative ? - innovative ? - prepared ? - flexible ? - competent ? - value conscious ? -

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zug. Projekt: EP 1203 s.a. EP 1129 (Chernobyl)

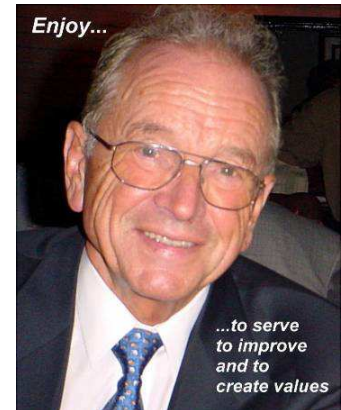
As founder and long year's CEO of Putzmeister I am very pleased that our globally active team has won the trust of the Japanese nuclear power plant management TEPCO to prove what we learned in Chernobyl in 1986.

Actually, a lucky incidence brought the chance for Putzmeister's 58 m boom pump for precise and punctual fighting of heat and fire in one of the Fukushima reactors.



Thanks to the spontaneous activity of Mr. Hiroshi Suzuki - director of Putzmeister Japan - two smaller 52 m Putzmeister pumps from our Japanese customer at first added up to the Japanese fire fighting equipment. Their strong Water jets were not effective enough with spraying sea water from distance into the reactor building. The tip of Putzmeister boom pumps could do this **more precisely** - but longer and higher reaching booms were necessary.

By a lucky incident a Putzmeister 58 m truck mounted concrete boom pump waited in Yokohama harbour. It had missed the ship for its real Vietnam - destination. So, this gave the spontaneously chance for Mr. Suzuki to bring this bigger unit effectively with up to 120 cbm / hour sea water jetting into action at reactor block 4 - as shown in the attached amateur photo and in more detail on our following website addresses:



<http://www.youtube.com/user/PutzmeisterAmerica?feature=mhum>

<http://www.youtube.com/user/PutzmeisterAmerica?feature=mhum#p/f/1/9gUHa1HMVi8>

http://www.pmw.de/cps/rde/xchg/pm_online/hs.xsl/9419_DEU_HTML.htmhttp://www.pmw.de/cps/rde/xchg/pm_online/hs.xsl/7770_9400_DEU_HTML.htm (Videos)

http://www.pmw.de/cps/rde/xchg/pm_online/hs.xsl/9380_DEU_HTML.htm (Media reports)



Due to diesel drive the unit was independent from the damaged el. power network.

Convinced by the positive effects and additional plans the management of TEPCO reactor company (Tokyo Electric Power Company) looked for even longer and bigger pumps – not only for cooling. Their perspective was also for concreting in possible future application similar to what Putzmeister successfully achieved **25 years ago in Chernobyl**. Obviously the next possibility to reduce dangerous radiation will be more or less closing the damaged reactors by encapsulating them as much as possible with concrete.

M 70



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When considering these perspectives, **TEPCO ordered via airfreight another 4 Putzmeister machines** – two 62 m units from Germany and two available 70 m machines out of Putzmeister America. These are worlds biggest practice proven units developed since 2005 für the US market.



A huge Antinovel plane will now fly the first of two 62 m machines from PM- Aichtal Factory airport to Japan- loaded Thursday morning at 7 am in nearby Echterdingen Airport. As landing rights for these huge Russian planes in US are more difficult it may take longer to shoop them form America to Fukushima. These huge Antonov planes have a load capacity of 150 tons - being then fully loaded with two 70 m boom mounted on semi-trailer units and flown from United States to Japan. This is a repetition of what happened in 2004 when a 36 m boom was flown from Echterdingen to Afghanistan.



Documentation for the earlier Air shipment or a M 36 to Afghanistan please download PM- Post 58 on www.putzmeister.eu



-- Will be amended...and regularly updated Aichtal, 30th March 2011





The huge plane could have taken easily 2 units M 62 – but only one was immediately available in Aichtal. On its way to Narita it refuels in Krasnoyarsk and arrives next morning at 10 am in Japan



M 70 air freighted from Atlanta USA – same as the second one from Los Angeles – both to PMJ near Narita /Japan. A total of 6 big PM machines were there equipped with video cameras, long distance remote controls and boom tip sensors for differentiated tasks at Fukushima. See video:

<http://www.youtube.com/user/PutzmeisterAmerica?feature=mhum#p/f/1/9gUHa1HMVi8>



PM Machines used as Manipulators

to get remote controlled access inside the reactor ruins with sensors and cameras, locally made by HITACHI and MITSUBISHI - on th right M 58 with radiation sensor



Remote control - finally from 5 km away

and how it looks on the screen there



Remote controlled Video cameras all over

Lead protected cabins



Subsequent Photos show the result of the **triple** GAU in FUKUSHIMA (= Größter Anzunehmender Unfall = Maximujm Credible Accident or Worst Case Scenario).

1. Earthquake 9.grade
2. Tsunami
3. Nuke explosion

Actually these were **three** extreme disasters in combination, which exceed all earlier risk estimations, creating rethinking of government strategies and policies worldwide and creating new paradigms:

Photos show actual destroyed reactor buildings published via Internet.



External cooling with sea water using our PUTZMEISTER booms must soon be ended as the contaminated out flowing water will flow back in the ocean. It also created salt crusts on hot areas.

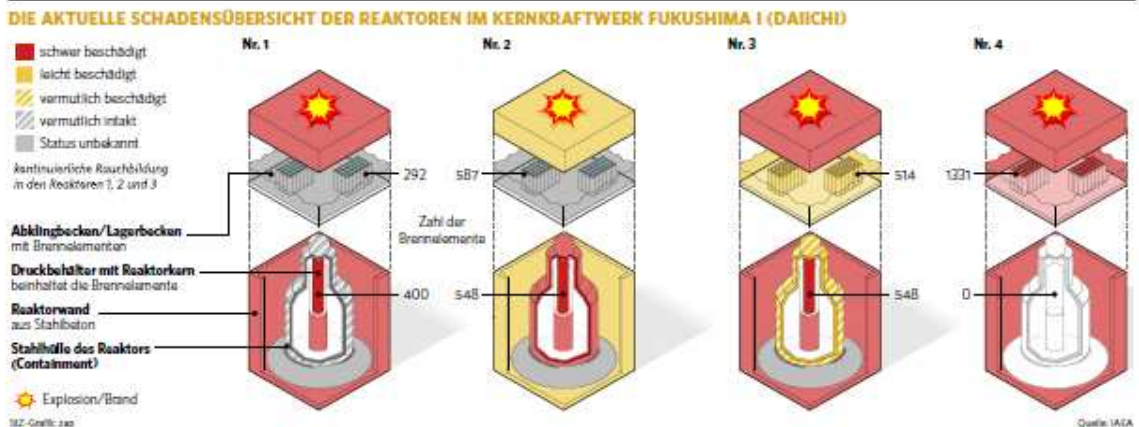
So similar as in Chernobyl our machines will finally be used to build a thick wall coverage with concrete or other suitable and pumpable materials. Radiation resisting concrete mixes for such purposes might be developed.

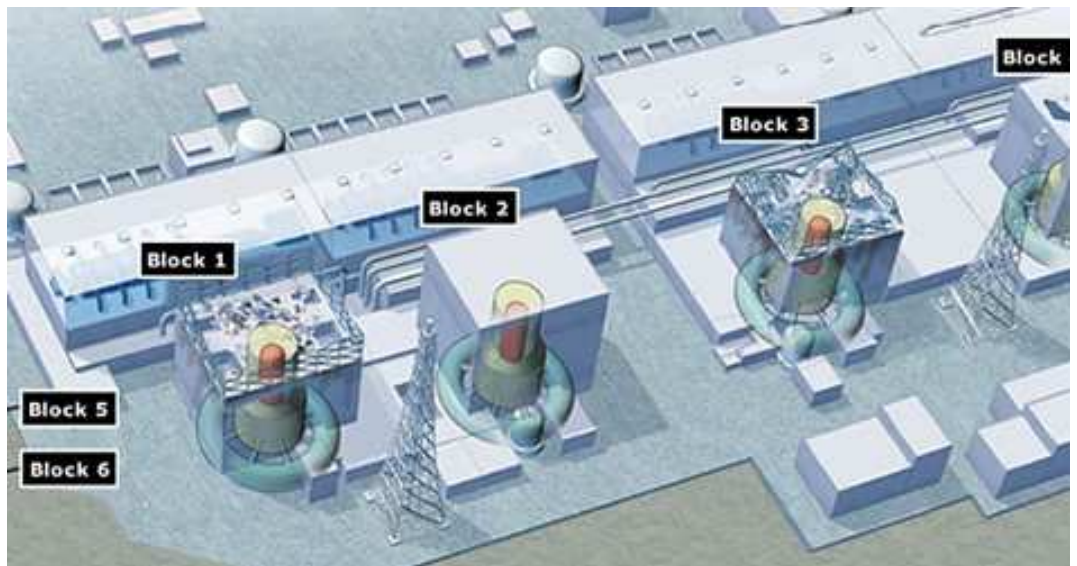
It remains still open ii the hindering debris from the exploded buildings can be taken off to create a closed shell as in Russia.

All this may only contribute to reduce the zone around Fukushima, which similar to Chernobyl no more can be populated. However now it seems to become much more severe as here 4 reactors – and not only one –are destroyed..



Anyhow all this wilt remain as a sad monument over centuries

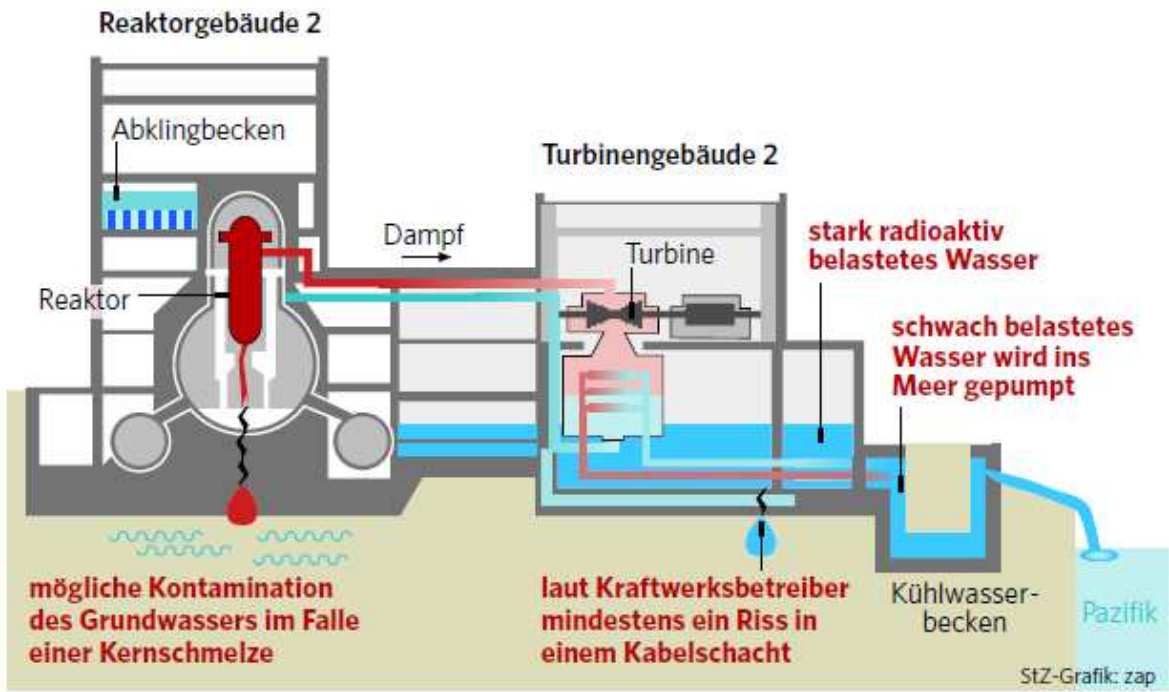






SO KOMMT DIE RADIOAKTIVITÄT INS GRUNDWASSER ODER MEER

Kernkraftwerk Fukushima I (Daiichi)



DIE AKTUELLE SCHADENSÜBERSICHT DER REAKTOREN IM KERNKRAFTWERK FUKUSHIMA I (DAIICHI)

