## Fukushima radiation leak reaches new high

Radiation readings from highly toxic water stored at Japan's crippled Fukushima nuclear plant have risen to a level strong enough to kill an unprotected person within hours Plant operator says readings near one set of storage tanks stood



## **RADIATION DOSES** Millisieverts (mSv)

at 2,200 millisieverts on September 3

10,000

Acute radiation poisoning - death within weeks Typical dose received by Chernobyl nuclear plant workers who died within one month of accident

Survival rate approximately 50 percent

6,000

Reading found near tanks used to store radioactive water at Fukushima plant, Sep 3, 2013

3,000 2,200

> Causes radiation sickness and nausea, but not death. Likely to cause fatal cancer many years later in about 5 of every 100 persons exposed

1,000 700

Vomiting, hair loss within 2-3 weeks Allowable short-term dose for emergency

workers taking life-saving actions Peak radiation level recorded inside Fukushima

350 per lifetime

plant four days after accident

Exposure level used as criterion for relocating

500

400 per hour

residents after Chernobyl accident Allowable short-term dose for workers controlling

250 100

2011 Fukushima accident Lowest level linked to increased cancer risk

20 per year 10

Average limit for nuclear industry workers **Full-body CT scan** 

Person's typical exposure to background radiation 2.4 per year 0.01 Dental x-ray