2004 PACIFIC BASIN NUCLEAR CONFERENCE

23 March 2004

OUR NUCLEAR COMMUNICATIONS

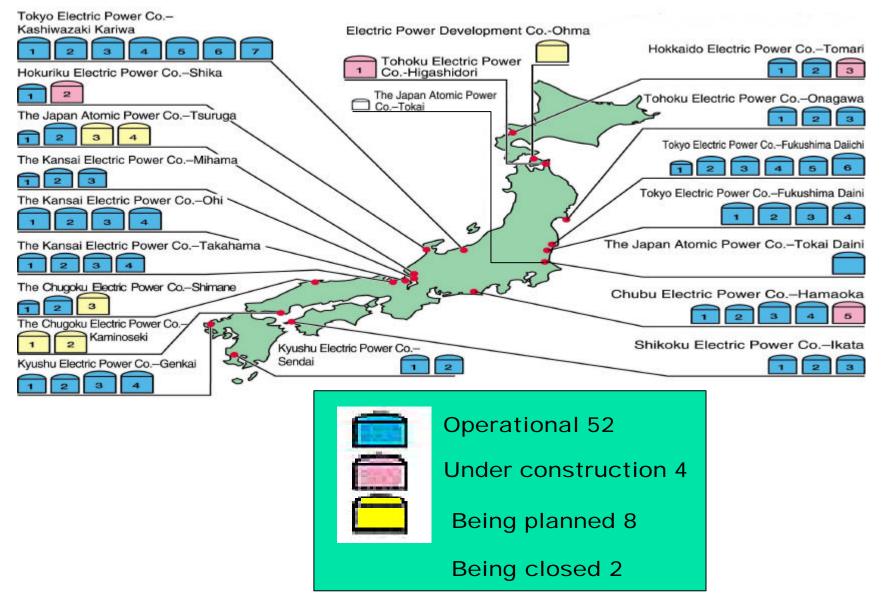


Masaaki Mizuno Nuclear Service Company, Japan

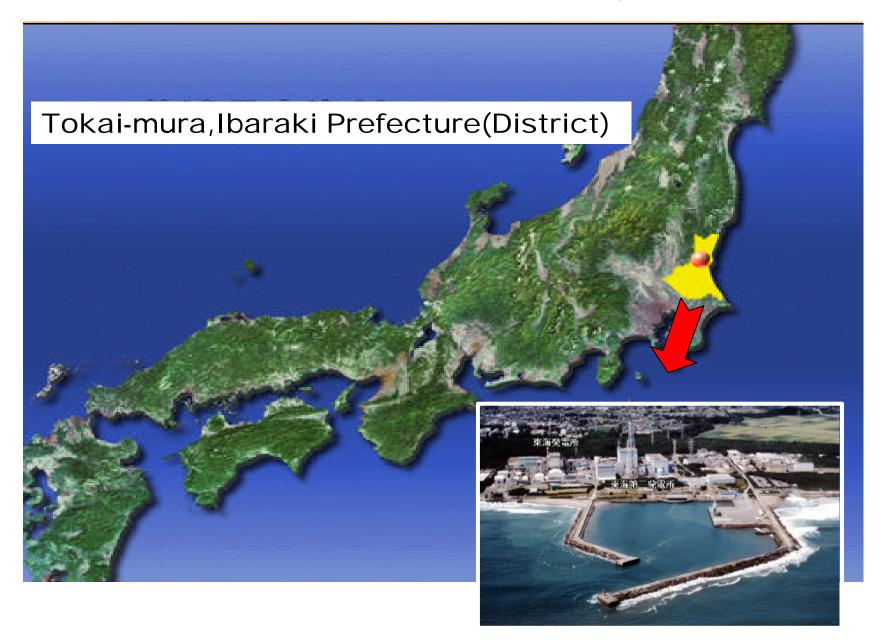


Status of Commercial NPPs in Japan

(Commercial plants, as of March 2004)



The Japan Atomic Power Company's Power Station



Tsuruga, Fukui Prefecture(District)

Unit 1&2 (Operational)

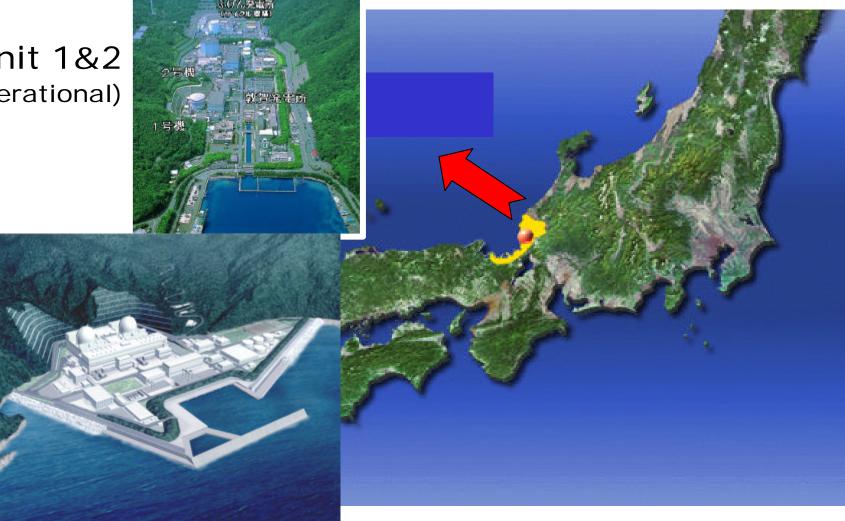
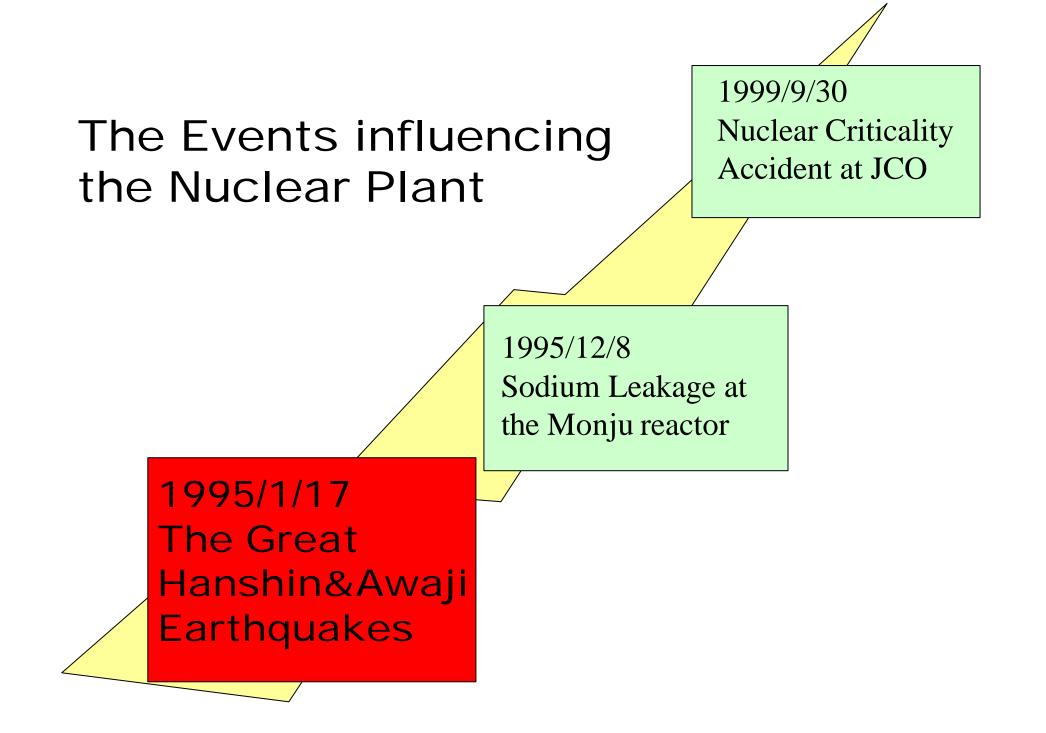


Image of Unit 3&4 (plan to construct)



The Great Hanshin & Awaji Earthquakes





1995/1/17

Magnitude : 7.3

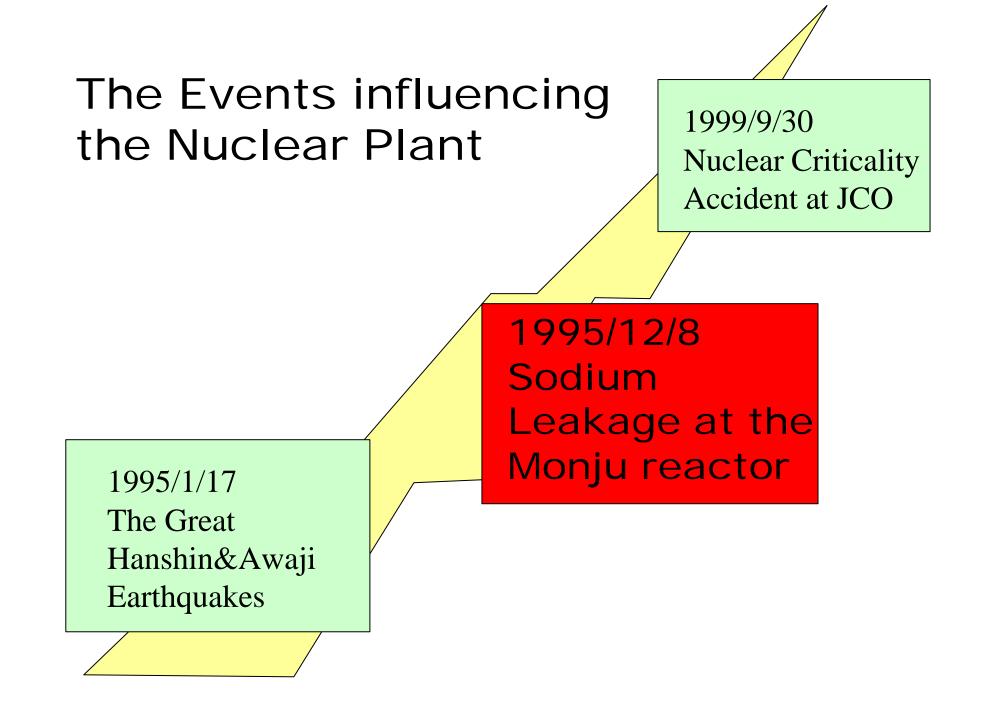
Casualties : 6433

missing : 3

injured : 43792

Destroyed Buildings: 104,906





Sodium Leakage at the Monju Reactor (INES 1)



Sodium leakage at the secondary loop piping room

Leakage of 700kg of sodium (estimation) causing fire

Vibration, generated by the flow of sodium, resonated with a thermometer sheath, subsequently damaging it.

Operation currently suspended







1999/9/30 Nuclear Criticality Accident at JCO

1995/12/8 Sodium Leakage at the Monju reactor

1995/1/17 The Great Hanshin&Awaji Earthquakes

Nuclear Criticality Accident at JCO

(INES 4)

1999/9/30

Criticality reached during operation

The state of criticality lasting for approx. 20 hours, emitting neutrons, gamma-rays and radioactive materials from the facility. Residents within 350 radius requested to evacuate, whereas residents within 10km radius told to stay indoors.

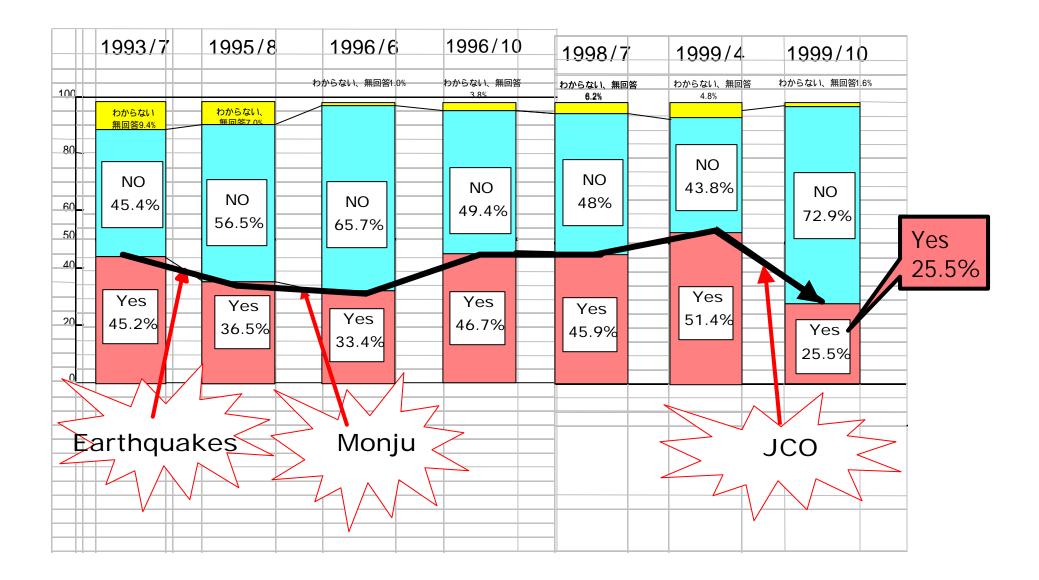
Fatalities: 2 (employees)

People exposed to radiation: 667





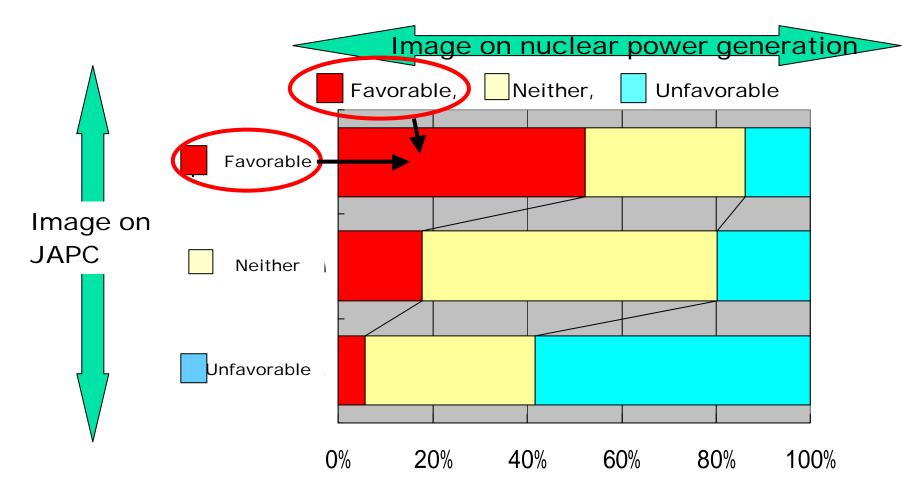
Public Perception about our Construction Plan



The Governor's Conditions for our Construction Plan

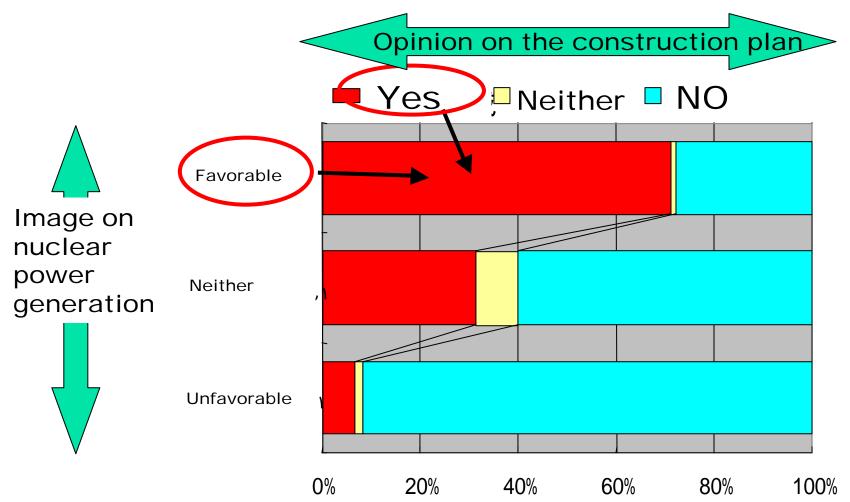
- 1. Ensure safety
- 2. Assist development in the local community
- 3. Win the understanding of local residents

Resident opinion surveyCovering 2000 people, 1996 Correlation between a Positive image on JAPC and Acceptance of Nuclear Power Generation



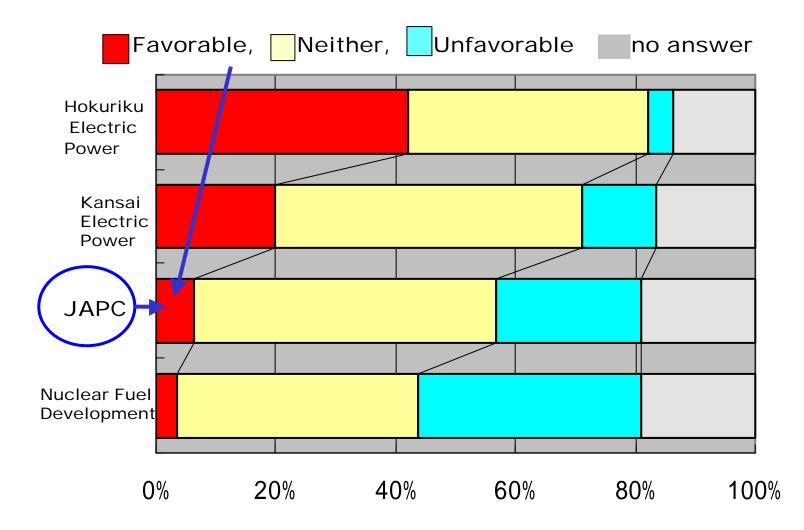
Resident opinion surveyCovering 2000 people, 1996

Correlation between a Positive image on JAPC and Opinions on the Construction Plan



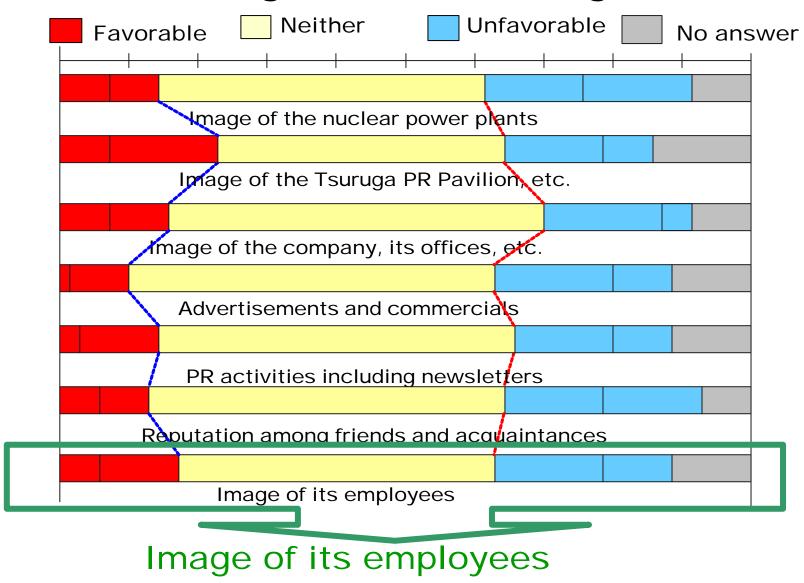
Resident opinion surveyCovering 2000 people, 1996

Positive Impression of Electric Power Companies



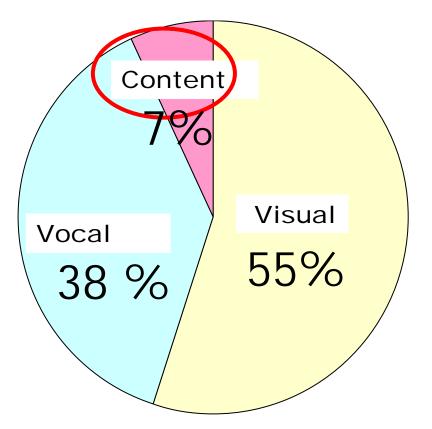
Resident opinion survey Covering 2000 people, 1996

Factors forming a Positive Image on JAPC



Our Nuclear Communications

A) Initiators : All employees (B) Receivers : Residents of Fukui District (C) Activities: Direct dialogues Meetings Local influencers Disclosure to the mass media Advertisements, commercials Sponsoring Theory of Dr. Albert Mehrabian "Major factors in forming an impression of speech"



I find it doubtful that the law can be applied to all cases.

Direct Dialogues with Residents (Home visits)





Visiting all 26,000 households in Tsuruga



Meetings with the Residents (phase-1)

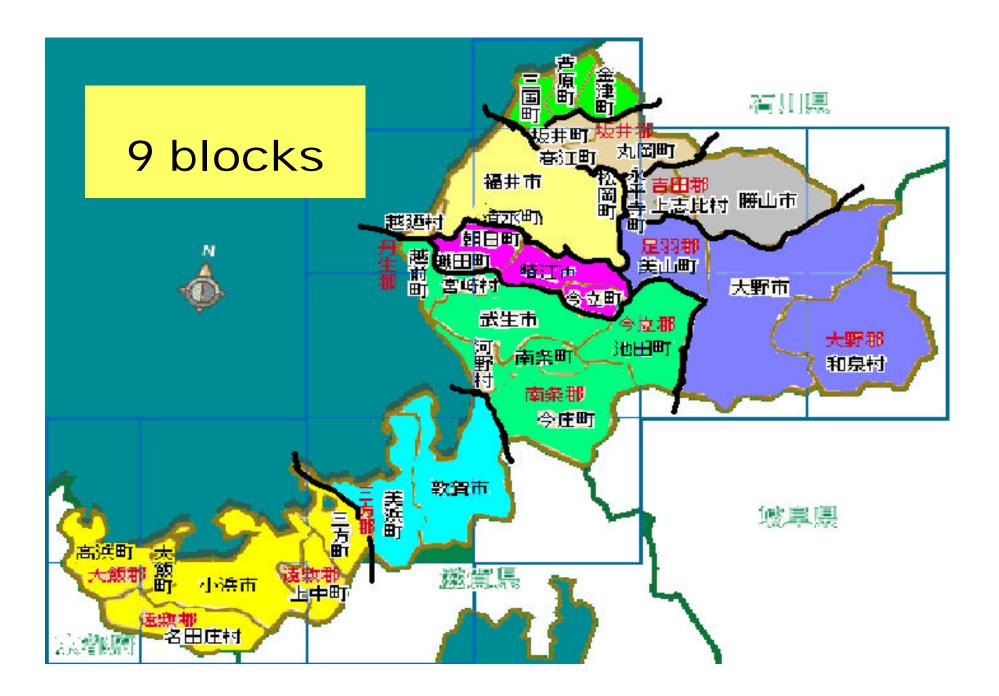


At takahama



At echizen

2600 participants



Meetings with the Residents (phase-2)



2400 participants

High context cultures and Low context cultures

Edward Hall

	High context cultures	Low context cultures	
Human relations	Deep association	Individualism	
Information	Shared	Not shared	
Communication method	plain messages for inference	Explicit messages to put forth one's opinions	
Typical example	Japan	USA	

Exchange with Opinions Formers



1999/7/12

Disclosure to Mass Media

(Primary coolant leakage at Tsuruga -2) (NES 1)





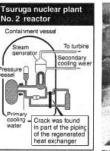
Leakage of primary coolant in the reactor containment 51 ton

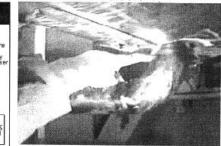
Manual shutdown of the reactor

No radioactive impact on the environment

Source of plant's coolant leak located

An 8-cm crack has been found in a pipe in the containment building of the Fuku inuclear power plant where a massive amount of radioactive cooling water leaked Monday, government officials reported to the Nuclear Safety Commission on Tuesday. According to the Natural Resources and Energy Agen cy as well as plant dificials, the crack was found in a stainless steel pipe in a regenerated heat schanger in the containment building after five workers at Japar Atomic Power Co.'s Tsuruga plant enered the facility just before 7





— An official of Japan Atomic Power Cc. points to the its Tsuruga nuclear plant No. 2 reactor where a masnount of radioactive water leaked from a crack. DURTESY of JAPAN ATOMIC POWER CO.

led to conduct the next crack formed in the middle of of checkups in 2001, the pipe, not in a weld where pipes are connected.

bers of the Nuclear Minister of International Commission pointed Trade and Industry Kaoru possibility of a defceroduct, because the CONTINUED OF PAGE 2



Disclosure to Mass Media (Primary coolant leakage at Tsuruga-2)

Thorough information disclosure

Establish a local media center to extend detailed support to reporters.

Release information on-site, video footages and graphic images.





Disclosure to Mass Media

(Primary coolant leakage at Tsuruga-2)

Evaluation by media

"News of an accident at a nuclear power station would make anyone feel concerned because of its association with invisible radiation. Yet, what deserves credit in this incident is the fact that all persons involved fulfilled their respective responsibilities, prevented radiation leakage to outside the facility, and delivered information accurately and swiftly to the general public. The commitment on the part of all nuclear power operators to sincerely undertake their duties and eliminate the need for cover-up, would be the only way toward building a sense of security among the Japanese public."



"Despite the possibility of causing misunderstanding, I dare say that this has been the most refreshingly pleasant media coverage of an accident at a nuclear power station"

Disclosure to Mass Media

(Primary coolant leakage at Tsuruga-2 reactor)

Information disclosure is an extremely important task. In this aspect, the reactor operator and administration authorities should be congratulated for their handling of the accident.

(excerpt of opinion report, 1999/10/25)

the Nuclear Safety Commission

Newspaper Advertisements



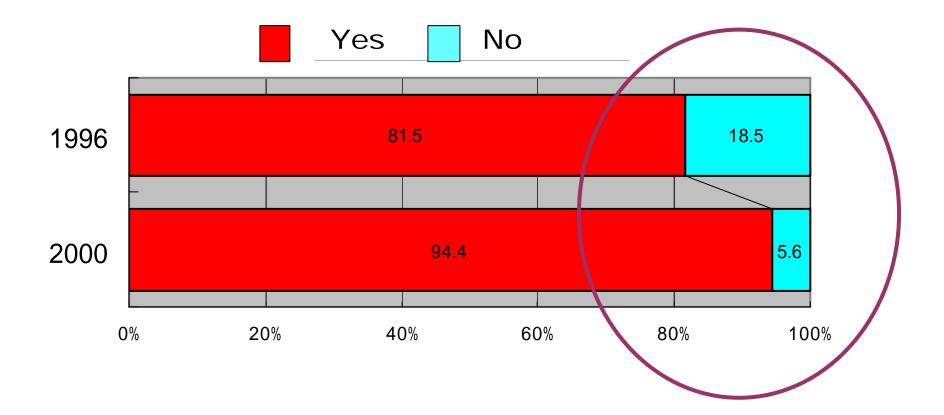
TV Commercials



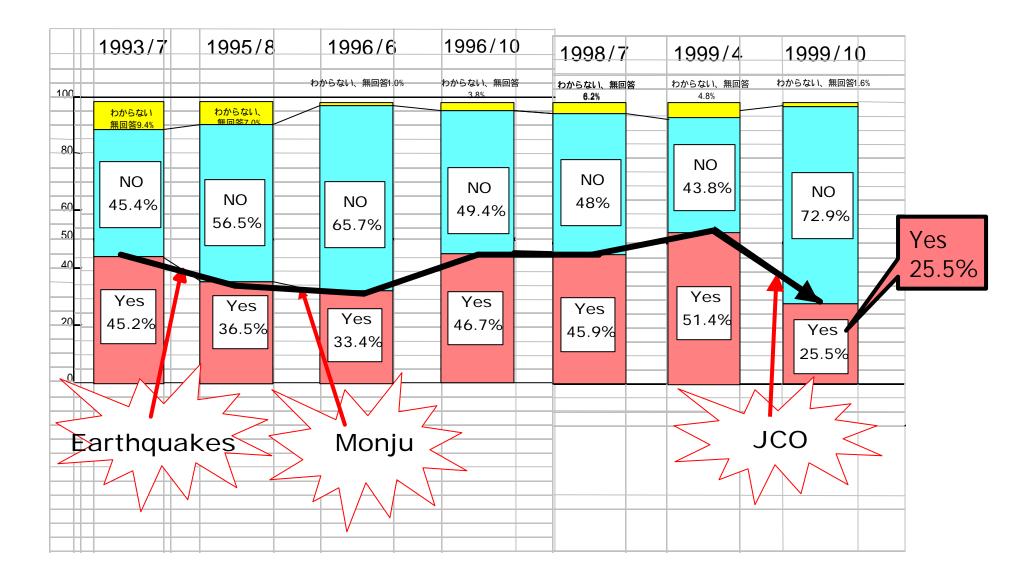
Sponsoring Newspapers and TV Programs



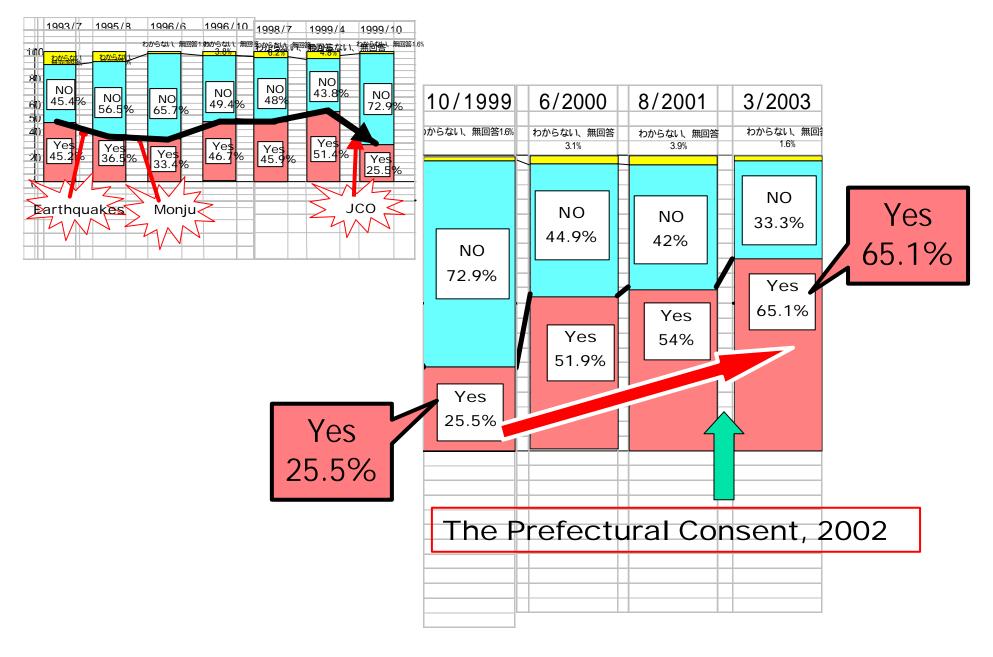
Resident's Recognition of JAPC



Public Perception about our Construction Plan



Public Perception about our Construction Plan



the Governor's Prefectural Consent

2002/12/25

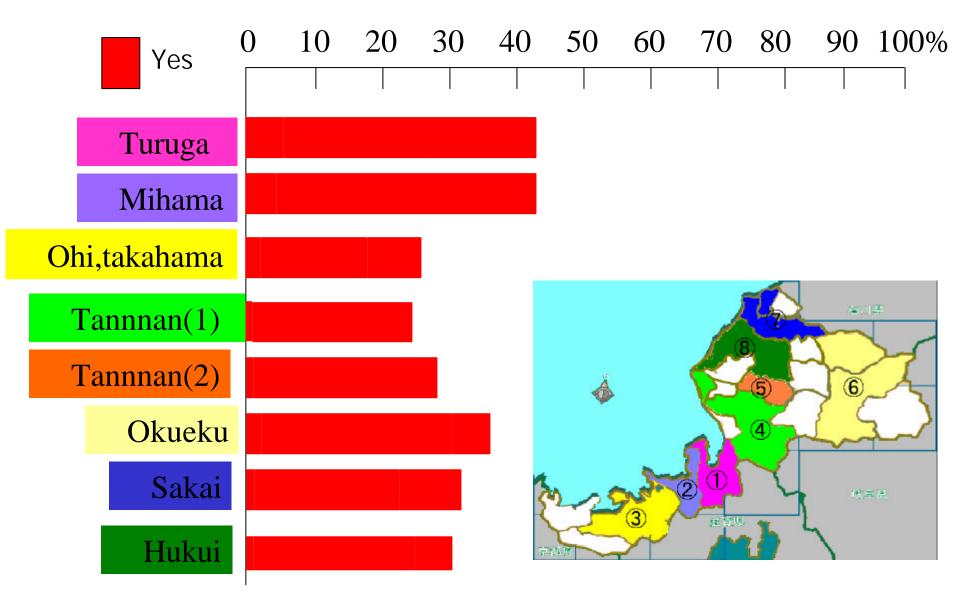


Thank you !

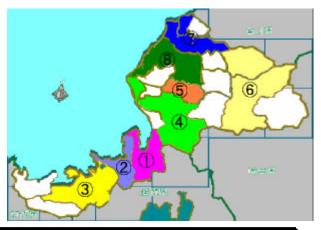


Approval for our construction plan

Resident opinion survey1999



A local resident's concerns



Turuga	Construction planning, Radioactive waste treatment, Accident Disaster prevention measures
Mihama	Constnructio planning, Decommissoning of reactor, Plant life
Ohi,Takahama	Siting Criterion, Safety issue, Energy Resources problem
Tannnan(1)	Disaster prevention measures, Radioactive waste treatment
Tannnan(2)	Disaster prevention measures, Radioactive waste treatment
Okueku	Accident, Disaster prevention measures, Siting Criterion
Sakai	Disaster prevention measures, Siting Criterion, Local promotion
Hukui	Siting Criterion, Plant management