

Status of inspection work of the main turbine of Unit 4

< Inspected equipment >

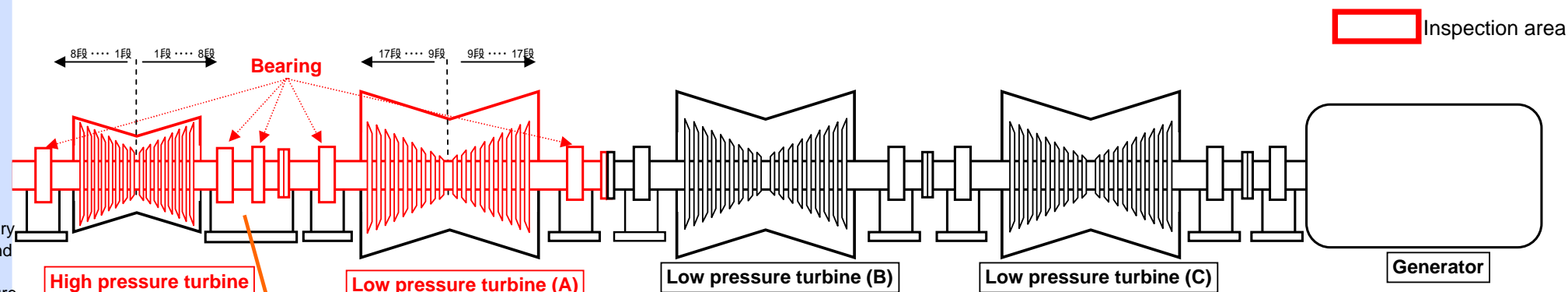
Low pressure turbine (A) 【moving blade(whole), stationary blade(upper half)】
 High pressure turbine 【moving blade(whole), stationary blade(upper half)】
 Bearing(from High pressure turbine to Low pressure turbine (A))

< Inspection period >

From November 7, 2011 to January 11, 2012

< Outline of inspection result >

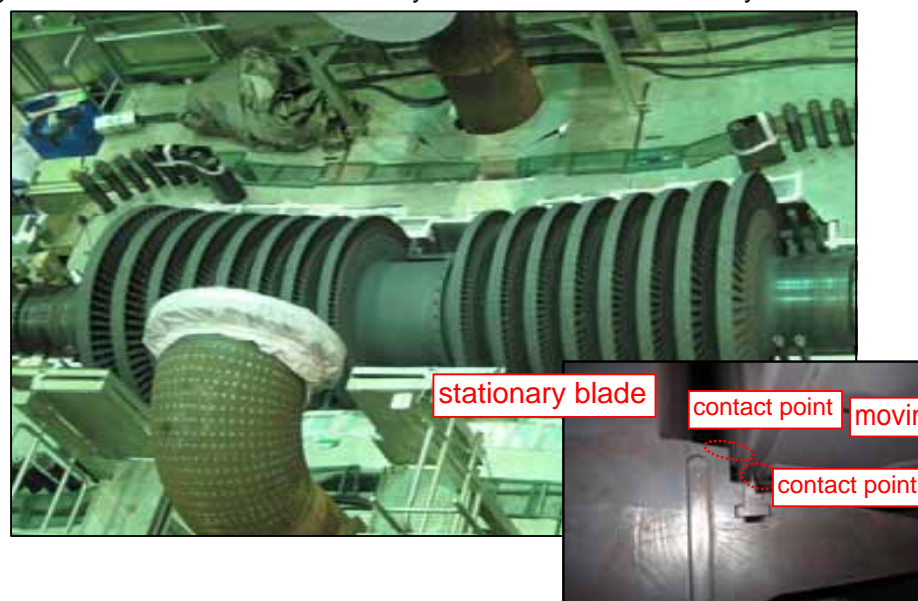
Although we found not only some cracks caused by normal operation but also some contact traces, which is located at moving and stationary blade of the low pressure turbine (A) and the high pressure turbine and oil thrower bearing, caused by the Tohoku-Chihou-Taiheiyou-Oki Earthquake, we confirmed they are minimal damage and we made sure there was no security issues.



< Status of high pressure turbine inspection >

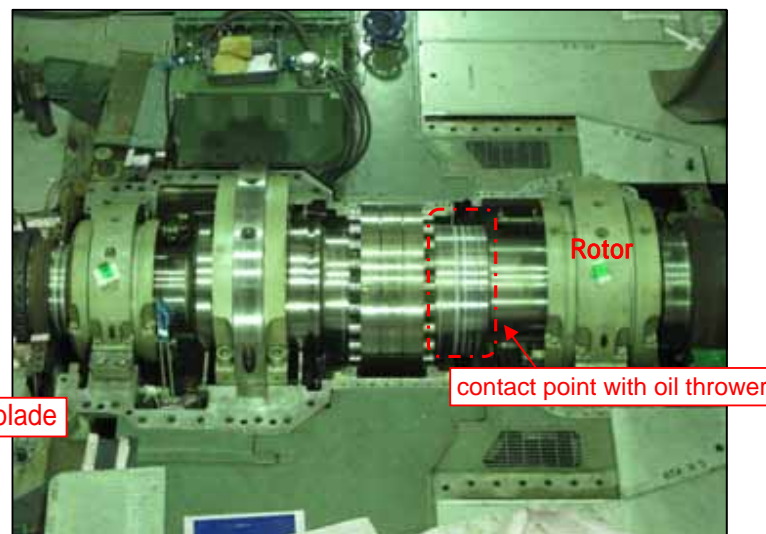
Eight (No.1 to No.8) moving blades and stationary blades are located symmetrically.

We found some contact traces between moving and stationary blade at the edge of No.1 to No.8 blades caused by the Tohoku-Chihou-Taiheiyou-Oki



< Status of bearing inspection >

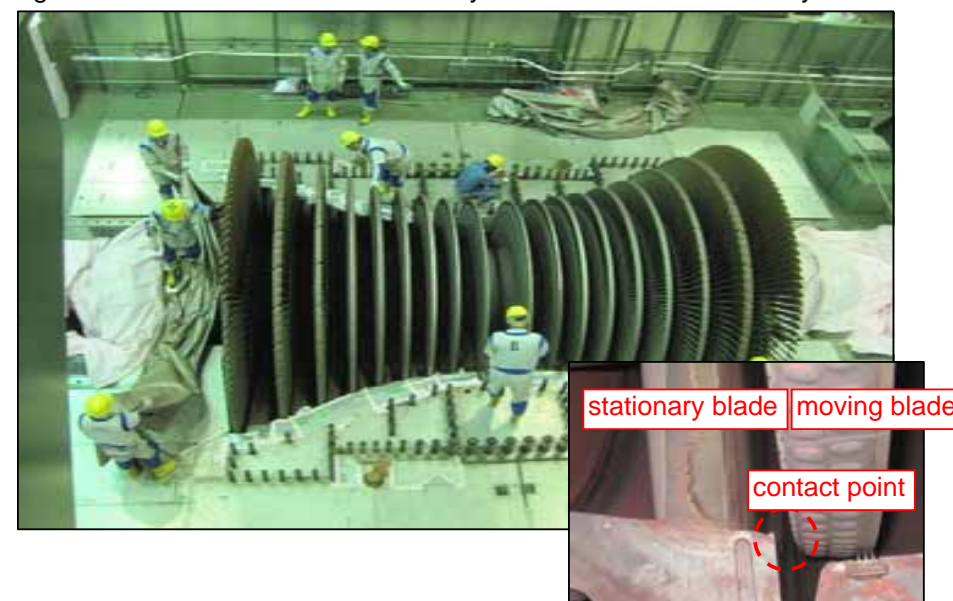
We found some contact traces between oil thrower bearing and rotor caused by the Tohoku-Chihou-Taiheiyou-Oki Earthquake through the result of bearing inspection.



< Status of low pressure turbine inspection >

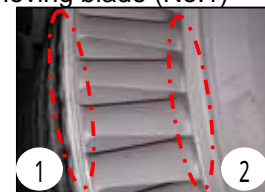
Six (No.9 to No.14) moving blades and stationary blades are located symmetrically.

We found some contact traces between moving and stationary blade at the edge of No.9 to No.14 blades caused by the Tohoku-Chihou-Taiheiyou-Oki



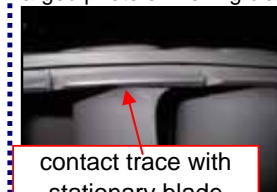
[Photo of contact trace]

Moving blade (No.1)



Enlarge

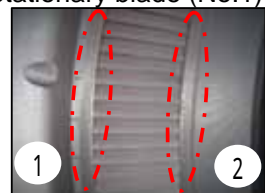
Enlarged photo of moving blade



Enlarged photo of moving blade



Stationary blade (No.1)



Enlarge

Enlarged photo of Stationary blade



Enlarged photo of Stationary blade

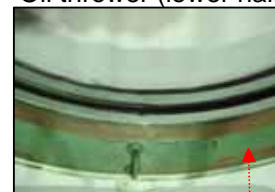


[Photo of contact trace]

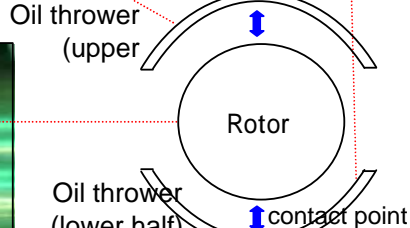
Oil thrower (upper half)



Oil thrower (lower half)

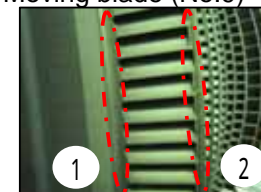


Rotor (contact point)



[Photo of contact trace]

Moving blade (No.9)



Enlarge

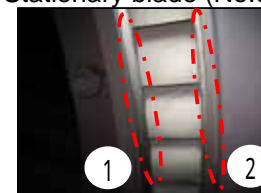
Enlarged photo of moving blade



Enlarged photo of moving blade



Stationary blade (No.9)



Enlarge

Enlarged photo of Stationary blade



Enlarged photo of Stationary blade

