

Report of damage found on Turbo Dynamos.

TURBO DYNAMO No.1

(Note:- The top half casing was only lifted 2" for examination in this turbine therefore it was impossible to see Rows completely).

Rotor:- Dummy grooves in good condition.  
Impulse blades in good condition.  
Reaction blades, Rows 2 to 8 inclusive and 10 to 13 inclusive damaged. Rows 1 and 9 also 14 and 15 appear to be standing.

Casing Top Half:-

Dummies, Rows 1 and 9 standing, Rows 2 to 8 inclusive are torn away.  
Impulse blades appear to be in good condition.  
Reaction blades, Rows 6 and 7 are torn away.  
" 1 to 5, 8 and 9 standing but damaged. Rows 10 to 15 standing.

Casing Bottom Half:-

Dummies, Rows 1 and 9 standing.  
Rows 2 to 8 inclusive are torn away.  
Impulse blades appear to be in good condition.  
Reaction blades, Rows 2, 5 and 6 are cut away.  
Rows 1, 3, 4, 7 to 10 standing but damaged. Rows 11 to 15 standing.

Condition of Turbine when being closed after examination.

TURBO DYNAMO No.2

Rotor:- Dummy grooves, in good condition.  
Impulse blades in good condition, but edges worn.  
Reaction blades, Rows 1 to 10 inclusive and Row 12 cut away, Rows 11,13,14 and 15 standing in safe condition.

Casing Top Half:-

Dummies, Rows 1 and 9, 3/8" high, and Rows 2 to 8 inclusive 5/32" high.  
Impulse blades, in good condition, except that inlet edges of blades are worn away.  
Reaction blades, Rows 1 to 9 inclusive, and Rows 10 and 12 are cut away. Rows 11,13,14 and 15 standing in safe condition.

Casing Bottom Half:-

Dummies, Row 1 = 3/8" high, Rows 2 to 9 inclusive 5/32" high.  
Impulse blades, in good condition, except that inlet edges of blades are worn away.  
Reaction blades, Rows 1 to 9 inclusive are cut away.  
Rows 10 to 15 inclusive in safe condition.

Note:- Damaged dummy strip in 9th Row of Casing Bottom Half was removed and new strip fitted.



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TURBO DYNAMOS.

Condition of Turbine when closed after examination.

TURBO DYNAMO No.3

Rotor:- Dummy grooves, in good condition.  
Impulse blades, in good condition.  
Reaction blades, Rows 1 to 12 inclusive, cut away.  
" 13, 14, 15 standing in safe condition.

Casing Top Half:-

Dummies, Rows 1 and 9,  $3/8$ " high, and 2 to 8 inclusive  $5/32$ " high.  
Impulse blades, in good condition, except that inlet edges of blades are worn away.  
Reaction blades, Rows 1 to 11 inclusive cut away.  
" 12 to 15 inclusive standing in safe condition.

Casing Bottom Half:-

Dummies, Rows 1 to 9,  $3/8$ " high, and Rows 2 to 8 inclusive  $5/32$ " high.  
Impulse blades, in good condition, except that inlet edges of blades are worn away.  
Reaction blades, Rows ~~1~~ 1 to 11 inclusive are cut away.  
Rows 12 to 15 standing in safe condition

Note:- Damaged dummy strip in 8th Row of Casing Top and Bottom half was removed and new strip fitted.

Plan shewing relative positions of Turbo Dynamos.

