

1. Security Classification of this Page : **Restricted**

2. Type of Document **Project Document**

3. Report No. : 4. Date : 5. Security Classification/
PD MT 8525 : Aug. 1985 : Declassification Schedule
: : **Restricted**
: :
: :

6. Title/Sub-title

Failure of IN-100 Alloy High Pressure Turbine Blades

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8. Division/Section : 9. Project No.
Materials Science : **MT-001**

10. Type of report/ : 11. pages : [2] : 12. Approved by/
Period covered : tables [] : No. of copies
Failure Analysis : illustrations [5] : **A.K.Singh**
: : : **12**
: : :
: :

13. a) Sponsoring Agency(s) : 13. b) Participating Agency(s)
: **Gas Turbine Research**
: **Establishment, Bangalore**
: :
: :

14. Keywords

Turbine blades, Leading edge cracking, Fatigue failure

15. Abstract

High pressure turbine blades developed cracks near the shroud on the leading edge, within one hour of run on the test bed. The blades had a chromal surface coating. The coating was severely cracked. The failure of the blades was due to fatigue initiated by the crack in the surface coating.
