| Federal Aviation Agency | AC NO: 20-55 |
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| ADVISORY CIRCULAR | AIRCRAFT |
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SUBJECT : TURBINE ENGINE OVERHAUL STANDARD PRACTICES MANUAL -MAINTENANCE OF FLUORESCENT PENETRANT INSPECTION EQUIPMENT

- <u>PURPOSE</u>. This circular advises operators of the necessity for periodic 1. checking of black light lamps and filters used during fluorescent penetrant inspection of engine parts. Failure to perform these checks might result in inadequate inspection of parts due to insufficient light intensity.
- 2. REFERENCE. Engine Overhaul Standard Practices Manual.
- BACKGROUND. The manufacturers of magnetic particle inspection equipment 3. have issued instructions and recommendations for maintenance of their equipment. A recent FAA Systemsworthiness Analysis Program (SWAP) team inspection revealed that some operators are not aware of the necessity for periodic checking of the black light lamp, which is used during fluorescent penetrant inspection of various engine components. This finding came about as a result of one engine manufacturer's recent revision to the Overhaul Standard Practices Manual which recommends that black light lamps and filters be checked every thirty (30) days with special type test equipment or its equivalent.
- 4. INFORMATION. Operators of turbine engines should refer to that section of the appropriate Engine Overhaul Standard Practices Manual concerning "Maintenance of Equipment and Materials (Magnaflux System)" for the recommended inspection period and details of the check procedure relating to black light lamps and filters used during fluorescent penetrant inspection. Work functions should be reviewed to assure that such instructions are being followed.

Geting Director, Flight Standards Service