

Federal Aviation Agency

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AIR CARRIER AND
COMMERCIAL OPERATORS

EFFECTIVE :

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SUBJECT : SYSTEMSWORTHINESS ANALYSIS PROGRAM

1. PURPOSE. This circular contains information regarding the implementation, operation, and reasons for the Agency's Systemsworthiness Analysis Program.
2. GENERAL. The Systemsworthiness Analysis Program is a new approach to the conduct of Agency responsibilities for surveillance of air carriers and commercial operators. Its objective is better utilization of Agency manpower and increased effectiveness of our inspection and surveillance functions in recognition of the rapidly increasing size and complexity of the air transportation industry. The program involves deemphasis on routine inspector surveillance and employment of a comprehensive auditing type system analysis. This will be a directed surveillance approach resulting in a concentration of Agency effort where it will yield the greatest effect to air safety and assurance of regulatory compliance.
3. PROGRAM FEATURES. Key features of the program are:
 - a. Establishment of teams of air carrier inspectors to perform programmed and as needed analyses with a corresponding reduction in resident inspector surveillance.
 - b. Emphasis on effective airline management control, organization, and policy as indicators of capability and compliance with the Federal Aviation Regulations.
 - c. Greater use of performance and reliability data to identify areas for directed surveillance.
 - d. Refocusing the role of the resident inspector to complement the Systemsworthiness Analysis Program.
4. ANALYSIS METHODS. It is planned that each region will employ at least one team which will conduct an analysis of each major area of the airlines' maintenance and operations systems. Usually, each of these

major areas will receive separate attention by portions of the team within a cycle that results in each operator's system being completely reviewed every 12 to 15 months.

In addition to the scheduled team analysis, special analyses will be conducted on an as-needed basis.

The procedures governing the conduct of these analyses are designed to encourage an objective and professional approach by the team to assure that good communication channels are maintained with the operator. Prior to the start of the analysis, the team and the resident inspector will meet with the operator to explain the purpose and scope of the analysis and to identify the areas to be investigated. In cases where a problem area exists, the team is instructed to discuss the matter frankly with the operator.

The team will function as a fact-finding arm of the resident inspector. Any conclusions, recommendations, or required corrective action will be transmitted to the operator by the resident inspector who will accomplish any necessary followup action.

5. IMPLEMENTATION. The transition from the present surveillance/inspection methods to the new analysis system will be accomplished on a gradual and orderly basis in recognition that effectiveness comes with experience. Prototype teams have been established in each region with October 1, 1967, as the target for full scale implementation.



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