

InsightAnalysis



UH-1H : Menu System 

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ATA Item

Structural Item Maintenance
InSight Foundation Analysis System

[Add Structural Item](#)

| ControlNumber | Nomenclature | Effectivity | Active | SSI | OSI | Comments | Structures Review |
|---------------|------------------------------|-------------|--------------------------|-----|-----|----------|-------------------|
| B1 | Tail Boom Internal Structure | TH-1H | <input type="checkbox"/> | 3 | 1 | 1 | Review |

InsightANALYSISSM

Web-based “Maintenance-Centric” Solution Providing Optimized Scheduled Maintenance Programs

Transforming Scheduled Maintenance Programs

InsightAnalysisSM is the only web-based, multi-user, customizable software solution that has successfully converted a legacy scheduled maintenance program to a fully compliant Maintenance Steering Group – 3 (MSG-3) based maintenance program. Serving as the commercial aviation industry’s best practice for scheduled maintenance, MSG-3 is approved and maintained by the Airlines for America (A4A, formerly the ATA). While other software solutions offer MSG-3 capability, InsightAnalysis is the only solution that incorporates specific logic for structures, systems, zonal, and Lightning-High Intensity Radiated Fields (L-HIRF). In addition, our software meets all Department of Defense (DoD) network security requirements and is fully transportable to other DoD agencies.

“Right Time to Find, Right Time to Fix”

MSG-3 is a system-driven, top-down, and task-oriented hierarchical maintenance program that incorporates repeatable, standardized inspections at all maintenance levels. It uses a highly structured decision logic that incorporates empirical and reliability data to determine the precise timing of scheduled maintenance actions automatically sensing the “Right Time To Find, Right Time To Fix”. Designed to facilitate a highly structured analysis logic in the database, InsightAnalysis captures each and every decision made during the development of the scheduled maintenance program. A crucial component to success, this step is key because once complete, a fully traceable scheduled maintenance program is available and documented with all relevant logic and decisions captured. Once implemented, the user or maintainer will always fully understand why and how maintenance actions are performed through this systematic approach.

Systems, Structures & Zones

InsightAnalysis captures, documents, and stores both Maintenance Significant Items (MSIs) and Non-MSIs. Using this

solution, Analysts perform Failure, Mode, Effects and Criticality Analysis (FMECA), and create applicable and effective task(s) for each MSI. During each step of the analysis, each functional failure and how it affects the operation, safety, and economic performance of the aircraft is captured. After systems analysis, each MSI is assigned a Hazard Risk Assessment and produces a Hazard Risk Index (HRI) to confirm task validity.

The specific structural analysis uses the Durability and Damage Tolerant Assessment (D&DTA) and Aircraft Structural Integrity Program (ASIP) data. This process aides in the identification and categorization of Significant Structural Items (SSIs) and Other Structural Items (OSIs). SSIs and OSIs are analyzed through accidental and environmental damage rating sheets to determine the susceptibility (likelihood of damage) and detectability (timely detection of damage). These ratings help determine the appropriate types of inspection task(s) and intervals.

InsightAnalysis provides a standard and enhanced (wiring and L/HIRF) zonal analysis. Zonal analysis allows for each zone to be analyzed and produce tasks that take into consideration the zone access, vantage point, environment, wiring and combustible material.

Supply Chain Management

A key component of an optimized scheduled maintenance program is ensuring the right parts are available at the right time to support the maintenance effort. InsightAnalysis is a maintenance-centric solution, meaning it incorporates each and every piece of information the mechanic needs to do their job. All relevant supply requirements, including expendable and recoverable assets, support equipment, and tools are integrated directly into each maintenance task. This fully comprehensive scheduled maintenance program not only provides the mechanic with all information needed to perform the maintenance tasks, but also ensures the supply chain is poised to support incoming and future workloads.

Continuous Analysis and Sustainment

A significant advantage InsightAnalysis offers is a fully traceable scheduled maintenance program. Paired with continuous capture of failure data, analytical teams can quickly report and effectively identify negative trends before they become detrimental to a program's reliability or availability. When integrated with Intergraph's VectorSustainSM process, the scheduled maintenance program remains current and continuously fine-tuned for future optimization.

| InsightAnalysis SM Standard Capabilities |
|--|
| Web-based, multi-user, customizable and scalable software solution |
| Meets all DoD network security requirements and is fully transportable to other DoD agencies |
| Optimizes fleet maintenance program |
| Capture and document MSI's and Non-MSI's |
| Utilizes specific logic for performing structural, systems, zonal, and Lightning-High Intensity Radiated Fields (L-HIRF) analysis |
| Incorporates empirical and reliability data to determine the precise timing of scheduled maintenance |
| Identifies and categorizes Significant Structural Items (SSIs) and Other Structural Items (OSIs) for inspection task(s) and intervals |
| Incorporates all relevant supply requirements, including related assets, support equipment, and tools directly into each maintenance task. |
| Provide tools for ad-hoc and predictive analysis |
| Provides Supply Chain organization with forecasting and trending |

For more information, contact:

Intergraph Government Solutions
info@intergraphgovsolutions.com
478.322.3200
www.intergraphgovsolutions.com

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