ENGINE FIRE DETECTION SYSTEM - INSPECTION/CHECK

1. **General**

    A. This section has the inspections and checks necessary to keep the engine fire detection system in a serviceable condition.

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2. **Engine Fire Detection System General Visual Inspection**

    A. General

    (1) This task includes the steps necessary to do a general visual inspection of the engine fire detection system.

    B. Special Tools

    (1) None

    C. Access

    (1) Open the left and the right cowl doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

    D. Do a General Visual Inspection of the Engine Fire Detection Loop.

    (1) Examine all three fire detection loop sections for condition, kinks in the loop, and for evidence of damage.

    (2) Examine the loop fittings for loose connections and for cracking at the tube to connector solder joints.

    (3) Examine the loop section for proper routing, security of the clamps and clamp insulators.

    (4) Examine the clamps and clamp insulators for proper positioning on the tube.

    NOTE: **The minimum loop bend radius is 0.50 inch (12.70 mm).**

    (5) Examine the clamps and attachment hardware for condition and security.

    E. Do a General Visual Inspection of the Engine Fire Detection Control Box.

    NOTE: **The fire detection control box is located on the aft side of the firewall.**

    (1) Examine the fire detection control box for condition and security of installation.

    (2) Examine the control box wire harness for condition, proper routing, and security of the wire harness connector.

    F. Do a General Visual Inspection of the Engine Fire Detection Alarm Assembly.

    NOTE: **The fire detection alarm assembly is located on the cockpit ceiling.**

    (1) Examine the fire detection alarm assembly for condition and security of installation.

    (2) Examine the accessible wiring for condition, chafing, and security of the connectors.

    G. Restore Access

    (1) Close the left and the right cowl doors. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

END OF TASK