TECHNICAL FAX # 100003

To: **All Fire Alarm Technicians**
From: **Technical Services**
Date: **October, 2000**
Subject: **How to determine if a Signature Series Detector is Dirty and Use of the Detector Refurbishing Program.**

Introduction
EST has implemented a cleaning program for Signature Series Detectors. This Technical Fax explains how to determine if a Signature Series Detector is dirty and how to use the program.

NOTE: If detectors are returned for Emergency/Warranty Replacement and found dirty, and no reference to the Dirty Detector Program is indicated, additional charges may apply. Also, if no problem is found after factory analysis and testing, additional charges may apply.

The use of an Atomizer (EST Catalog # SM-EXT1 or Home Safeguard Model 1490) is strongly recommended. Improper dispensing of smoke detector test spray can contaminate smoke detectors and in turn can lead to detector troubles. Normal field cleaning will not be effective on this residue.

EST catalog number SM-TEST includes a case of smoke detector test spray and a free Atomizer.

How to Determine when an Ion Detector is dirty – EST3:
For EST3 systems using SIGA-IPHS and SIGA-IS the following procedure is used:

Step 1   Open 3-SDU program/project and choose *"Tools/Signature Series/Diagnostics".*
Step 2   Click on *"Upload DSDC Tables".*
Step 3   Click on "**Device Troubles**" tab; the "**Latching Troubles by Device Address**" window, and message "**Min. quiescent value threshold Ion sensor not met – dirtied**" will appear if the detector is dirty.

How to Determine when a Photo Detector is dirty– EST3:
If you use SIGA-PS, SIGA-IPHS, or SIGA-PHS the EST3 system will display "Device Maintenance Alert" (0675 Loop 1 or 0685 Loop 2) condition at the 3-LCD/3-CPU(1) when the Photo portion of detector needs maintenance.
Running a report for "Dirty Head List" will generate a list of all devices and their dirty levels.

How to Determine when an Ion Detector is dirty – EST2:
For EST2 systems using SIGA-IPHS and SIGA-IS the following procedure is used:

Step 1   Open 2-SDU program/project and click on *"Tools/Signature Series/Diagnostics".*

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Step 2   Click on **"Upload SDC Tables".**

Step 3   Click on **"Device Troubles"** tab; the **"Latching Troubles by Device Address"** window, and message **"Min. quiescent value threshold Ion sensor not met – dirtied"** will appear if the detector is dirty.

How to Determine when a Photo Detector is dirty – EST2:
If you use SIGA-PS, SIGA-IPHS, or SIGA-PHS the EST2 system will display a dirty detector trouble condition at the 2-LCD from the 2-MCM panel when the Photo portion of Detector needs maintenance.

How to Determine when an Ion Detector is dirty – IRC3:
For IRC3 systems using SIGA-IPHS and SIGA-IS the following procedure is used:

Step 1   Using the 4D program Go to **Tools/Diagnostics.**

Step 2   Upload trouble bits.

Step 3   Set crosshairs **to SOC trouble Bits 8, 9, and 10** to see if dirty ION is indicated.

How to Determine when a Photo Detector is dirty – IRC3:
If you use SIGA-PS, SIGA-IPHS, or SIGA-PHS the IRC3 system will display a dirty detector trouble condition at the LCD from the CM1(N)/CM2(N) panel when the Photo portion of Detector needs maintenance.

How to use Refurbishment Program:
Step 1   As outlined in Marketing release you may use our Advance Replacement Program by checking the box "Warranty Replacement".

Step 2   Under Reason for Return write **"Dirty Detector".**

Step 3   Fill out all applicable **Contact information.**

Step 4   Under Shipment Details fill in the **Quantity**, and then under **Catalog Number** write **"RP"** followed by the applicable **Catalog number** of the device(s) you wish to return.

Step 5   Under **Unit cost** write **"$15"** and then under **Subtotal** multiply quantity requested by the **$15.**

Step 6   *Very Important,* Fill in **Original Sales Order Number**. This is the Sales Order Number that you originally purchased your Detectors.

Step 7   Fax the Form to **1-888-378-8778**.

If you have any questions regarding this application please contact EST Technical Services in Sarasota, Florida at 941 755-4811.
Email us: EST.Techsupport@edwards.spx.com

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