

# Oil Burner Seat Test

## *Restraining Leather Seats*

Presented to: Materials Working Group

By: Patricia Cahill

Date: June 17 – 18, 2008



Federal Aviation  
Administration



# Use of Wires in Restraining Leather Seats

## *Survey of 6 labs in the United States:*

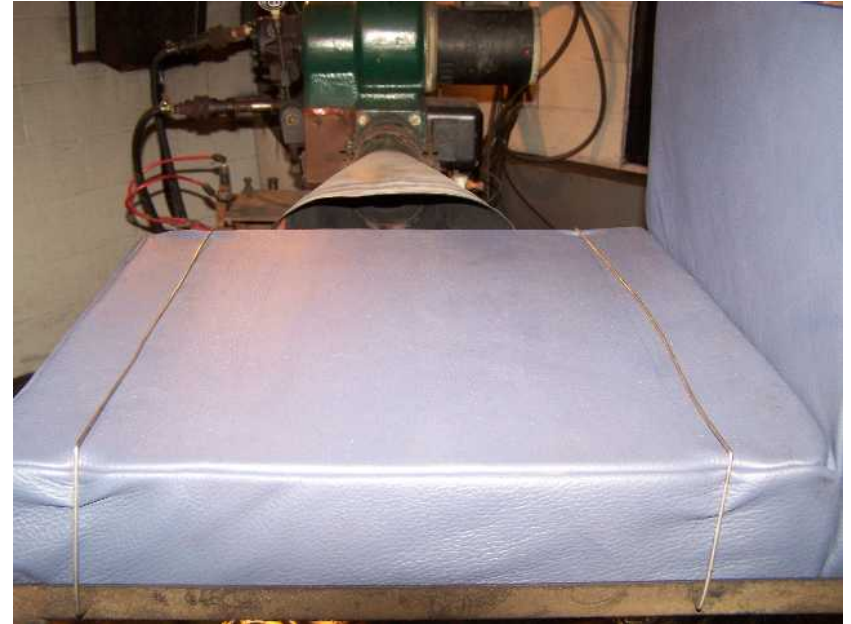
<b>Lab A</b>	<ul style="list-style-type: none"><li>• Two Wires on the Vertical Cushion</li><li>• No Wire on the Horizontal Cushion</li></ul>
<b>Lab B</b>	<ul style="list-style-type: none"><li>• Two Wires on the Vertical Cushion</li><li>• Two Wires on the Horizontal Cushion</li><li>• More wires added if two are insufficient</li></ul>
<b>Lab C</b>	<ul style="list-style-type: none"><li>• Four Wires on the Vertical Cushion (with Two Wires on the Diagonal)</li><li>• Three Wires on the Horizontal Cushion (with Two Wires on the Diagonal)</li></ul>
<b>Lab D</b>	<ul style="list-style-type: none"><li>• Three Wires on the Vertical Cushion</li><li>• Four Wires on the Horizontal Cushion (with Two Wires on the Diagonal)</li></ul>
<b>Lab E</b>	<ul style="list-style-type: none"><li>• Two Wires on the Vertical Cushion</li><li>• Two Wires on the Horizontal Cushion</li></ul>
<b>Lab F</b>	<ul style="list-style-type: none"><li>• Two Wires on the Vertical Cushion</li><li>• Two Wires on the Horizontal Cushion</li></ul>

# Use of Wires in Restraining Leather Seats

## *Actual Two Horz. & Two Vert. Configurations:*



View 1 of 4



View 2 of 4

# Use of Wires in Restraining Leather Seats

*Actual Two Horz. & Two Vert. Configurations:*



View 3 of 4



View 4 of 4

# Use of Wires in Restraining Leather Seats

*Actual Four Horz. (with two on the diagonal) & Three Vert. Configurations:*



View 1 of 3



View 2 of 3

# Use of Wires in Restraining Leather Seats

***Actual Four Horz. (with two on the diagonal) & Three Vert. Configurations:***



View 3 of 3

# Use of Wires in Restraining Test Cushions:

- Chapter 7 Supplement (7.3.5) discusses the use of one wire in securing the vertical seat cushion to the specimen frame.
- The survey of labs above shows that multiple wires are being used not only on the vertical cushion, but the horizontal cushion as well.
- The wires must not disturb the flame-spread behavior of the material being tested nor have any impact on the oil burner flame itself.
- The FAA will have further discussion on this matter.

# Radiant Panel News

## *New Controller Highlights*

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# Radiant Panel News ...

- The Series 93 Controller (that we all have) is being phased out. This information came from the distributor that supplies the Tech Center.
- The new controller is called the EZ-Zone™ PM controller.
- We bought one for the new radiant panel test chamber that we built.
- We are currently working with it and have not encountered any problems.
- We will keep everyone updated.