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ASTM D02.B0.03 L-60-1 Surveillance Panel
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the September 25, 2009 L-60-1 Surveillance Panel Teleconference. Please direct any corrections or comments to my attention.

Sincerely,

Rick Graziano
Chairman
L-60-1 Surveillance Panel

Attachments

**Report of Meeting
L-60-1 Surveillance Panel Teleconference Call
September 25, 2009**

Attendees

Allen Comfort
Bridgett Brosnan
Cory Coglin
Marty Rose
Wes Stocks
Pat Adams
Don Lind

Art Sanchez
Frank Lopez
Jerry Gropp
Don Bartlett
Rick Graziano
Pete Radonich
Brian Foecking

Ralph Kozlowski
Brian Koehler
Dale Smith
Ron Shoda
Bruce McGlone

Note: L-60-1 SP voting members in **BOLD**

Meeting Discussion

The raters have been trying different procedures and processes to evaluate enhancements & improvements to repeatability and reproducibility with respect to Carbon Varnish ratings.

Mr. Lind- explained the theory of the rater's idea of a rating fixture, new procedure and the request for a Panel teleconference meeting. He also stated that if this process is to be used as an experiment it must be used at the 2 or 3 rating workshops.

Attachments:

Attachment #1 - is the rating fixture.

Attachment # 2 - proposed rating fixture.

Attachment # 3 - Shows a rater using the fixture.

Mr. Stocks/ Mr. Koglin- worked on the process of putting together the rating fixture; the light is 6 inches from the gear, adjustable up to 18 inches. Note: Does not meet Section A10.5 of the Test Method of 'approximately 4 in'.

Mr. Bartlett- asked if Afton would share drawings of the rating fixture for labs to make one, or circulate the fixture to the labs before the workshop. Afton indicated they did not want to share the drawings at this point. As for sending the unit around, they wanted to be cautious of setting any predetermined rater preferences/bias, either positively or negatively, that could possibly hurt the chance for success or acceptance before the workshop experiments in January. There was much discussion and the consensus was that Afton, having two units, would send one around to the labs.

Mr. Bartlett – Asked TMC to provide a known gear to be included with the lights sent to each lab and report the ratings back to the TMC for some form of a base line.

Mr. Lind – Asked who uses a rating booth – SwRI is the only lab-using booth. He questioned if it met Manual 20, page 16 or was different.

Mr. Koehler – Lighting can significantly affect the results. Labs should look at the white color bulb requirement as spelled out in the Test Method, section A10.2, as the bulbs may / are no longer available (4500 vs. 4100). He also ask if background lighting is believed to have an impact. He shared some of the Diesel and PC philosophical differences.

Mr. Koglin – suggested that, for the sake of getting use to the fixture, we should rate in the normal environment. With respect to the future of L-60-1 rating, rating booths may want to be considered and implemented.

Mr. Gropp- Asked how the exercise would look like at the upcoming rating workshop in January. Attendee discussion followed.

Rating experiment planned for January 2009 workshop

1st exercise will be rating per normal workshop procedure; 2nd exercise is to rate using the proposed rating rig/fixture, new procedure and at normal conditions; 3rd exercise is to use the proposed rating rig/fixture, new procedure and a booth.

Note: LZ will need to make a CRC compliant rating booth for the July 2010 workshop.

Motion 1 ⇒ by Mr. Gropp /second by Mr. Lind – In order to provide sufficient time for raters to conduct the rating activity and experiment for the January workshop only, the rerate portion for all other areas is to be eliminated. Vote was: 7-0-0

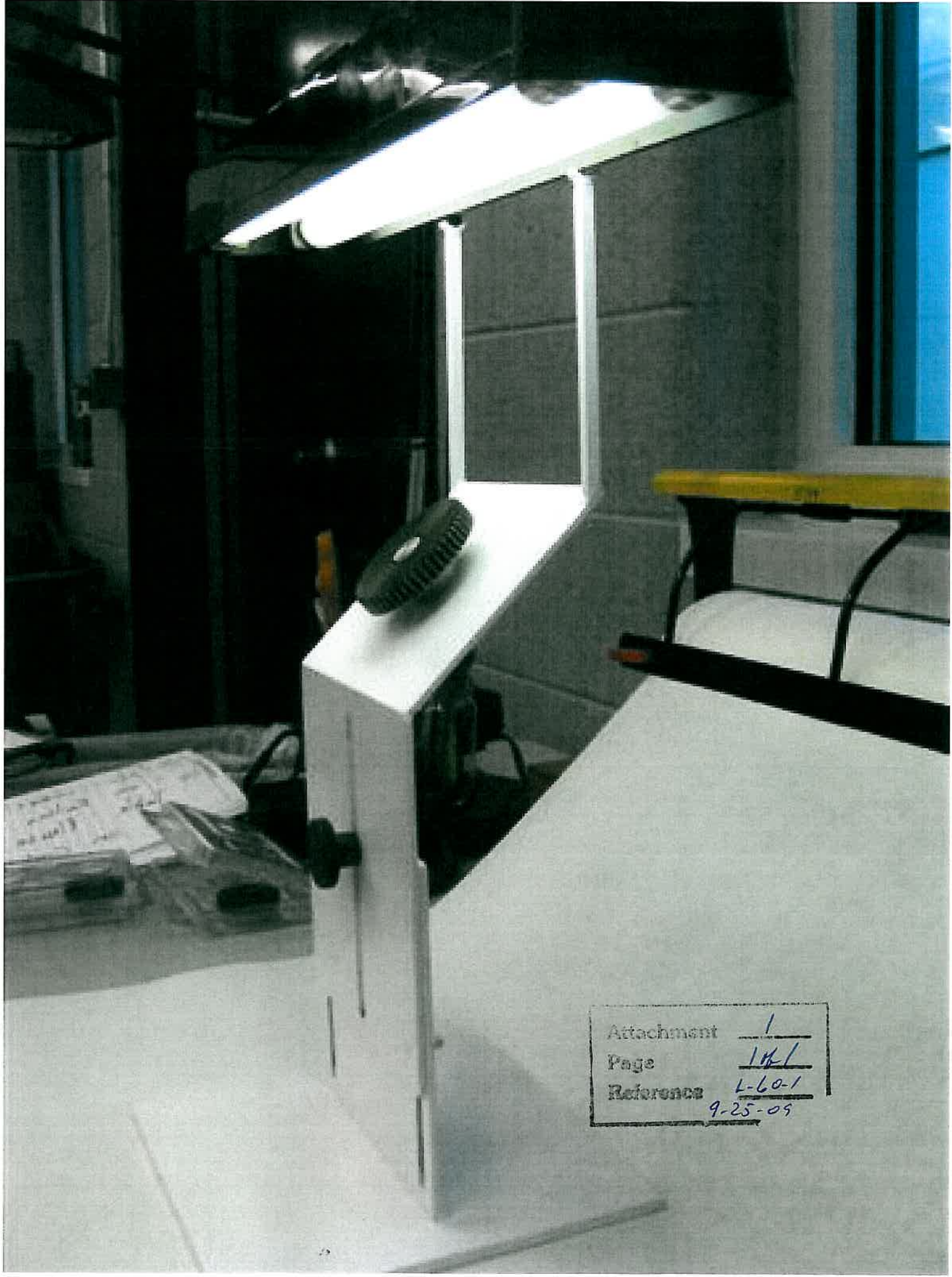
Motion 2 ⇒ by Mr. Koglin/ second by Mr. Koehler - TMC is to send two sets of gears to Afton. Afton will send rating fixture and gears to LZ, LZ will forward onto Intertek - Park, and lastly on to SwRI with fixture being return to Afton and Gears to TMC. All raters at each lab are to rate the gears in their home environment, report results and comments to TMC using the proposed rating procedure and the rating fixture. Vote was: 7-0-0.

Being no further business, the meeting was adjourned.

Respectfully submitted,



Ricki P. Graziano
L-60-1 Surveillance Panel Chairman



Attachment	<u>1</u>
Page	<u>1 of 1</u>
Reference	<u>L-60-1</u>
	<u>9-25-09</u>

Practice/proposed L-60 Rating Procedure

- Handle the gears at the gear teeth lands to avoid any contact of the rated area.
- Use a cool white type fluorescent 4500 K color temperature light's with a minimum illumination level of 200 foot-candles for rating gears.
- Place the gear on the gear rating fixture with the keyway vertical, front side up.
- Wipe a $\frac{3}{4}$ inch wide area across the diameter of the face of the gear along the keyway. Wipe the gear five times in the same direction.
- Position the light on gear rating holder. With the back edge of light on the fixture.
- Rate the top half of the gear looking down on the gear, positioning oneself at near eye level. Do not rate the gear teeth or the spacer bushing contact area.
- Rotate the gear 180 degrees and rate the other half of the gear.
- Turn the gear over and repeat the rating procedure for the back side.
- Use any of the three Rating Scales (A, B or C) for Non-Rubbing Parts in CRC Manual No. 20 to determine the varnish rating.
- Do not use new test parts, such as a gear or the washer nut area of the test gear as a 10.0 rating reference point.
- Repeat both large and small gear with the same procedure.

Attachment	<u>2</u>
Page	<u>14-1</u>
Reference	<u>L-60-1</u>
	9-25-09

Attachment 3
Page 1161
Reference 1-60-1
9-25-09

