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12 October, 2000

Mr. Ujagar Bhachu
NRC Washington
Phone: (301) 415-7894
Fax : (301) 415-5369

Dear Mr. Bhachu,

Per our phone conversation today, please find our clarifications below:

1. The physical locations of the source holders inside the C-frame are shown in millimeters on IMS drawing 9822007-9 M1, sheet (blatt) 1.
2. As you know, there are two spring assemblies (redundant operation) used to close the shutter. Each spring is tensioned to 1 Nm (Newton meter). The source shutter requires a force of .7Nm to close. As you know also from the graph provided to you by the spring manufacturer, a single spring directly exposed to a continuous temperature of about 475°C (890°F), will degrade one spring to the .7 Nm tension required to close the shutter. Therefore, both springs together still maintain a force of 1.4 Nm. By interpolation of the graph, we can deduce that the temperatures inside the C-frame, and particularly the springs themselves, would need to reach over 700°C (1,290°F) before the shutters may experience problems closing.
3. As we discussed, IMS has over 100 of these gauges (profile and thickness using this type of source and source holder) installed worldwide with approximately 400 sources. This product has been the key to IMS' success around the world. Given all of these installations, these sources and source holders, given routine inspection, have given no problems.
4. Also per our conversation, the serial number of the Nucor profile gauge (C98-22-007) is formed as follows:

C98 – This represents the year in which the order was placed and the engineering started.
22 - This designates a steel profile gauge. For example, a simple thickness gauge (one source and one detector) for steel would be 11.
007 - This represents the 7th gauge in the series for that particular year.

I hope these clarifications help in your assessment. We understand that your review is near completion. But we also understand that the device needs to be reviewed one more time by an additional reviewer, but you expect few questions. If I understood you correctly, issuance of our

device registration will take place sometime next week. If I may be so bold, may I ask once again that once completed, would it be possible to fax a copy to Mr. John McGrath at NRC region 1?

Thank you for your help, and we await your approval.

Very Best Regards,

A handwritten signature in cursive script, appearing to read "John Buckman", with a long horizontal flourish extending to the right.

John Buckman

General Manager, and RSO

IMS Systems Inc.