

KPS N.A., Inc.

350 Executive Boulevard
Elmsford, New York 10523

TEL. 914-593-0037
FAX. 914-593-0035

Koito

February 1, 2010

PA5

Mr. Shoichi Morioka
PA-5 Railcar Project Manager
Kawasaki Rail Car, Inc.
29 Wells Avenue, Building No. 4
Yonkers, NY 10701



ORIGINAL

Letter No.: **KOI-PA5-01519**
Subject: MDS IMOM - Koito Response to PATH comments
In reply to: PA5-KOI-01519
Spec. Ref.: TS 20.1.1.4
Letter Ref: None
Action: KRC

Dear Mr. Morioka,

We would like to submit the response to the PATH comments for Inspection, Maintenance and Overhaul Manuals (IMOM) for MDS forwarded via PA5-KOI-01519. Please refer to "IMOM (MDS).xls" for response details.

PATH Comment 1

Please include all relevant FMIs, ECOs, JTN, or any other modifications to this and all other manuals and training programs.

Koito Response

We updated the information to reflect all modifications.

PATH Comment 2

Some of the screen shots have illegible Icon/dialog box texts (e.g., Fig. 4-132, Fig. 4-133, to name a few). Need legible copies of all screen shots in all IMOs.

Koito Response

We prepared only TOD Screen Shots that need to be replaced due to display changes or illegibility.

We prepared all the PTE and PDA Screen Shots.

For Figures 4-97 to 4-102, Figure 4-171, and all the Event Recorder-related Figures below Figure 4-171, please contact each vendor since they are not figures of Koito products.

PATH Comment 3

In the "Remarks" column, what does "SMO28-1G1, SMO28-1G2, SMO29-1G1, and SMO29-1G2" stand for? Are they wire numbers? Give brief detail in "Remarks" column.

Koito Response

Please add "Printed Circuit Board" to each Remarks column:

e.g. "Printed Circuit Board SMO28-1G1 I/F Error"

PATH Comment 4

For "RIO Control Power Recovered" what does "Initial Motive Time (2 Seconds) is not applied" mean? Give brief detail in "Remarks" column.

Koito Response

Please add the following sentence to the Remarks column:

"The trouble is not detected for two seconds after the MDS is started."

PATH Comment 5

For Speed Pulse Failed Fault, the Trigger column for Buried Car is confusing. Remarks column is blank which can be used for brief clarification.

Koito Response

Please refer to the attached material "Supplementary Description about SPEED PULSE FAILED detection_U16-0-11-172-E.doc." This is a draft of contents that will be added to Section 7.3 of U16-0-11-172-E (Trouble and Fault Definition). This is issued to create IMO.

PATH Comment 6

The Trigger/Remarks columns for four (4) MDS failures are blank. Need to include information.

Koito Response

Please add the followings to the Trigger columns:

MDS RADIO SET FAILURE : <"I/F Error MDS Radio Set" = 0> & <MDS Radio Set "RF Error" = 1>

MDS RADIO SET RECOVERED : <"I/F Error MDS Radio Set" = 0> & <MDS Radio Set "RF Error" = 0>

MDS RADIO SET COMMUNICATION FAILED : <"I/F Error MDS Radio Set" = 1>

MDS RADIO SET COMMUNICATION RECOVERED : <"I/F Error MDS Radio Set" = 0>

PATH Comment 7

Last sentence "The PA5 MDS PTE Application communicates with the components embedded Serial Communication Interface (SCI)" does not make sense. Correct/clarify sentence.

Koito Response

This part was not written by Koito, but Koito thinks this part is unnecessary. Koito leaves it to D&R whether to delete or not.

PATH Comment 8

The "TBD" needs to be replaced with applicable procedure.

Koito Response

Please replace "TBD" by referring to the attached material "4.3.4.12. Troubleshooting MDS Using PDA.doc." Please revise the descriptions to match the IMOM format.

We want to utilize Figure 4-59 in the IMOM that D&R created in order to show infrared sensor window of IROC, as follows:

Please create a new figure by adding red circles that show infrared sensor window to Figure 4-59 (in the IMOM that D&R created). (Please do not revise Figure 4-59 itself.) And please replace Figure 10 (attached material "4.3.4.12. Troubleshooting MDS Using PDA.doc.") with the new figure.

PATH Comment 9

The screen shot states that "MDS time are adjusted by PC time." Does PC time refer to the time icon on the lower right corner of the Desktop on PTE PC? If so, then this implies the important function of the Event Recorder time stamp as derived from MDS time can be manipulated/adjusted without the required WIBU key. Doesn't MDS time/date adjustment require a WIBU key (until, of course, when MDS Wayside system becomes operational after which automatic daily time/date updates are done wirelessly .) ?

Koito Response

PC time refers to the time icon on the lower right corner of the Desktop on PTE PC if PC's time zone is Eastern Time. The MDS receives time in GMT from the MDS PTE, converts the received GMT time to Eastern Standard Time (GMT-05:00), and sets the converted EST time as MDS time.

The time conversion from GMT to EST is conducted because the MDS PTE is used in EST area (GMT-05:00).

Time displayed on the PC of MDS PTE is EST time. On the other hand, GMT time is transmitted from the MDS PTE to the MDS to adjust MDS time.

Thus, PC's time must be set to a proper value (proper area and proper time).

MDS time/date adjustment does not require a WIBU key.

PATH Comment 10

Add "MCU" (and its meaning) to the list of abbreviations in page 4-XV of the document.

Koito Response

Since this is not Koito's scope, Koito would like D&R to address this comment.

Koito has found some revision points. Revision Points are summarized in "IMOM (MDS).xls" attached. Koito would like D&R to revise the IMOM according to "IMOM (MDS).xls".

The electronic files of illustrations are distributed in cdr format. Tiff files are for reference.

Deliverables:

One (1) CD-ROM is attached.

Attachments (On CD-ROM):


IMOM (MDS).xls

4.3.4.12. Troubleshooting MDS Using PDA.doc

Supplementary Description about SPEED PULSE FAILED detection_U16-0-11-172-E.doc

Revised Illustrations (cdr format and tiff format for reference)

Sincerely Yours,

A handwritten signature in black ink, appearing to read 'Matt Rodney', is written over a horizontal line.

Matt Rodney
Program Manager
KPS N.A., Inc. / Koito Industries, Ltd.