



Operation Change Request

OCR No: 007

Issue: D

Title: Revision of calibration states 67, 8, 16 and 48.

Description of Request: Because all the moon states PET's have been changed to 1 second, the originally implemented 2 seconds for the direct dark approach is redundant. Request is to change the PET of two dark current calibration states

Furthermore we want to use the WLS hot-mode dark to correct state 16 and 48, therefore the PET of these states must be equal to the WLS hot mode dark states.

New Pixel Exposure Times and Co-Adding Factors:

State_id: 8.(dark current 5)
Repetitions in state: 8.
State duration: 40 seconds.

channel:	ch 1a	ch 1b	ch 2a	ch 2b	ch 3	ch 4	ch 5	ch 6	ch 7	ch 8
pet:	5	5	1	1	1	1	1	5	1	1
coadding:	1	1	1	1	1	1	1	1	1	1

State_id: 67 (dark current 3).
Repetitions in state: 8.
State duration: 80 seconds.

channel:	ch 1a	ch 1b	ch 2a	ch 2b	ch 3	ch 4	ch 5	ch 6	ch 7	ch 8
pet:	10	10	10	10	0,125	0,125	10	0,125	2	2
coadding:	1	1	1	1	2	2	1	1	1	1

State 16: (NDF monitoring) : channel 6 -> 0,0072 seconds.
No change of co-adding

State 48: (NDF monitoring) : channel 6 -> 0,0072 seconds.
No change of co-adding

Originator: Kleipool / Lichtenberg	Date of Issue: 2003-07-07	Signature: e-mail, Q. Kleipool, 2003-07-07
------------------------------------	---------------------------	--

Assessment of SSAG (necessary for requests by scientists):

SSAG: S. Noel	Date: 2003-07-07	Signature: e-mail, S. Noel, 2003-07-07
---------------	------------------	--

Classification of OCR: D

OCR Analysis (incl. Implementation Option):

- a) State ID 8 requires change of PET for channel 6 ; coadding no change (1 CTI)
- b) State ID 67 requires change of PET for channels 3, 4, 6; coadding changed (2 CTIs - PET + Coadding 50). By changing coadding table 50 the allocation specific to individual calibration states is maintained and no change to State Index is required.
- c) State ID 16 requires change of hot mode channel 6 (1 CTI)
- d) State ID 48 requires change of hot mode channel 6 (parameter table modification included in c)

The implementation of this OCR requires only state parameter table changes, no timeline modifications. Thus implementation is decoupled from planning cycles. Implementation will start after having received final approval of OCR.

Upon onboard implementation of this OCR with the upload of the 4 CTI-files the change is considered as permanent. Consequently we will require in parallel at ESOC a change of ERCORMS.

SOST: E. Krieg, SOST-IMF (ESA, Industry if necessary)	Date: 09/07/2003	Signature: via e-mail 09/07/2003
--	------------------	----------------------------------

Approval of Proposed Implementation:

Originator Approval: Q. Kleipool	Date: 2003-07-10	Signature: e-mail 2003-07-10
-------------------------------------	------------------	------------------------------

SSAG Approval: S. Noel	Date: 2003-07-9	Signature: e-mail 2003-07-9
---------------------------	-----------------	-----------------------------

Decision / Approval:

The OCR shall be implemented as described in the OCR Analysis.

DLR Approval: Ch. Chlebek	Date: 2003-07-10	Signature: e-mail 2003-07-10
------------------------------	------------------	------------------------------

Implementation by SOST : Onboard initialisation is scheduled for orbit 7267, July 21st at UTC 17:59.
Data rate check for ID08 -> 122326 b/sec = 31,4% ok
Data rate check for ID67 -> 376491 b/sec = 96,5% ok
CTI-files generated 11/07/2003

SOST: E. Krieg, DLR-IMF	Date: 11/07/2003	Signature: via e-mail 11/07/2003
-------------------------	------------------	----------------------------------