ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Off:	7. Org.
Siri Jodha Singh Khalsa	5 MAR 99	99-0204	—	303-492-1445	NSIDC	

8. Title of Change: Use of n0spg03 for processing NSDIC V0 data into HDF-EOS

9. Originator Signature	10. Date:	11. Class	12. Type:	13. Need Date:
		II	CCR	3/30/99

14. Office Manager Signature	15. Date:	16. Date CCB Decision Needed:	17. Category of Change:	18. Priority:
		3/30/99	Other	Routine

19. Documentation/Drawings Impacted:	20. Schedule Impact:	21. CI(s) Affected:
none	none	none

22. Release Affected:	23. Date due to Customer:	24. Impl. Date:	25. Effectivity of Change:	26. Est. Cost
none	NA	3/30/99	3/30/99	None

27. Source Reference: ☐NCR (attach) ☐Action Item ☐ GSFC CCR ☐Tech Ref. ☒Other:

28. Description of Change: (use additional Sheets if necessary)
We wish to use science processing machine (n0spg03) in production of HDF-EOS granules from NDAAC V0 data sets which are in binary or plain HDF. This effort is part of an ESDIS-funded prototype to test the HDF-EOS library on granules in polar projections.

29. Proposed Solution: (use additional sheets if necessary)
Develop and run C code that will input files in binary format and output them in HDF-EOS using the HDF-EOS library delivered as part of the custom code in Release 2.0 of ECS. Migrate input data from V0 string onto the B.0 string, and output data back to the V0 string via ftp. This effort will not impact the availability of the affected resources for ECS purposes. See additional sheet for further information on resource impacts.

30. Alternate Solution: (use additional sheets if necessary)
Use V0 hardware, which may not be available.

31. Consequences if Change(s) are not approved: (use additional sheets if necessary)
The NDAAC and it's user community is still skeptical that HDF-EOS fully supports data in polar projections. If forced to use V0 hardware the variety and quantity of HDF-EOS granules we will be able to produce may not be adequate to convince the community.

32. Does Change Affect Any of the following (Please Explain on additional sheet):
☐Maintenance Training ☐Performance ☐Operation Training ☐Safety ☐Service ☐Support ☐Test
☐Baseline (XRP) ☐Y2K Compliance

33. Organization(s) Affected: ☐CM ☐Clearcase SG ☐Contracts ☐Chief Eng ☐FOS ☐M&O
☐QO ☐ Rel Dev ☐Procurement ☐RTSC ☐Sci. Data Eng ☐Security
☐Sys. Dev. ☐Sys. Eng. ☐Sys Verf Acpt ☐Other

34. Site(s) Affected: ☐EDF ☐Mini-DAAC ☐VATC ☐EDC ☐GSFC ☐LaRC ☒NSIDC ☐SMC ☐AK ☐JPL
☐EOC ☐Other

35. Board Comments: Approved thru the end of year; inform ECS before changing OS or patch level.

36. Work Assigned To:

37. Release Authorized (For CM Use Only): ☐Yes ☐ No

38. CM Verified/Signature and Date

39. EDF/REL2 CCB Chair (Sign/Date): Mac M. Dendl 3/5/99

40. Disposition: ☐App ☒Ap/C ☐DisApproved ☐Withdraw ☐Fwd/ECS ☐Fwd/ESDIS

41. ESDIS ERB Concurrence:

42. ECS CCB Chair (Sign/Date):

43. Disposition: App ☐ A/C ☐ DisApproved ☐ Withdraw ☐

44. CCR Closed Date:

ORIGINAL

ADDITIONAL SHEET

CCR #: **Rev:** **Originator:** S.J.S. Khalsa

Telephone: 303-492-1445 **Office:** NSIDC

Title of Change: Use of n0spg03 for processing NSDIC V0 data into HDF-EOS

Software libraries will be installed in Khalsa's home partition on n0mss01, which has 2.5 GB available.

Data will be stored on /data3 of N0spg03, which has 6.5 GB available.

The 5km AVHRR product is about 36 MB for the Northern Hemisphere and 25 MB for the Southern Hemisphere per time (morning and afternoon) per day, compressed (all parameters). The 1.25km product is approximately 16 times larger. The SSM/I product is about 40MB per day and the TOVS product is about 0.5MB per day, both uncompressed. Transferring one week of these data to the B.0 string will involve a little over 1 GB of data, spread out over several weeks. There will be a smaller amount of data to transfer data back, as more of the data will be compressed inside the HDF-EOS files.

A new user account may need to be established for the programmer who will be working on this project. This programmer may also need an Xterm on the M&O network to gain ready access to the B.0 machines.

Estimated requirements of ECS M&O staff time:

Systems Adminstration: 1 hr. to set up account for NSIDC-provided programmer, 1 hr. to delete account at project end.
ILS/HW Maint Coordinator: 1 day, if needed to set up Xterm in new location.
Operations: no effort anticipated, except brief periods to resolve any resource conflicts if any such conflicts arise (none are anticipated).
Programmer: zero (no time will be charged to ECS if arrangements are made for the former SSI&T Engineer to work on this project)
User Services: zero (the products generated are not intended for distribution as part of this prototype)
Write: zero (the products generated are not intended for distribution as part of this prototype)

CM01A

ORIGINAL