

PGE Number Priority	Integration Testing at the SCF (% complete/date completed)	Verification at the SCF (% complete/date completed)	Delivery to CM (% complete/date completed)	ASDC Promoted to Production	Comments
Build 1 -- NCT#3 Support					
CER1.0P2 -- New RDR L0	11/18/2008 (>75%)	1/15/2009	2/1/2009		<p>Expected to be completed earlier than the larger CER1.1P8 software</p> <p>10/21/08: Sample RDRs from IDPS expected in late Oct, with proxy filled RDRs due to show up in Nov.</p> <p>11/18/08: Waiting for Zero-fill and proxy data to complete this effort.</p> <p>12/02/08: Zero-fill proxy data received, however there are problems in this data that should be fixed in the actual proxy data, which should be received as soon as it is available and released by Raytheon.</p> <p>12/17/08: Waiting for actual proxy data to complete updates and testing.</p> <p>01/14/09: Proxy data RDRs have been received and testing with this data is now occurring.</p> <p>1/28/09: Code moved to <i>magneto</i> for testing. An issue with the gcc compiler was discovered and will be tested when Ashley returns to work from sick leave.</p> <p>02/25/09: New PGE CER1.0P2 has been delivered to CERES CM and is being tested by Tammy. Work will be needed to update the eph/att conversion portion of this PGE once the final format of this data in the RDR has been selected.</p>

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Scripts	11/15/2008 (>75%)	1/15/2009	2/1/2009		<p>12/17/08: Work has begun on creating the scripts to run the new RDR preprocessor. Work will be completed once we have actual proxy RDRs.</p> <p>01/14/09: Discussions with the ASDC Ingest personnel about how to create the PCF scripts, since there are 132 input RDRs per run.</p> <p>02/25/09: Scripts to run validation code and the new scripts for CER1.1P7 and CER1.1P8 are being written and tested now.</p>
CERESlib C-Metadata	9/15/2008 (>75%)	1/15/2009	2/1/2009		Expected to be completed earlier than the larger CER1.1P8 software
Test Plans & other documentation	N/A	1/15/2009	2/1/2009		<p>Expected to be completed earlier than the larger CER1.1P8 software</p> <p>02/25/09: The Test Plan and Operator's Manual have been updated with the new CER1.0P2 NPP-FM5 RDR preprocessor information.</p>

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CER1.1P8 -- NPP C++ Level-0 processor	1/15/2009 (50-75%)	2/15/2009	3/1/2009		Build1 to include the following functionality -- Read NPP LO, process instrument parameters necessary for geolocation and radiance conversion, conversion of counts to radiance, output of time, raw and drift correct radiance counts, co-lat and long, with some QC reports 10/06/08: Some re-work was found to be necessary due to the Toolkit requiring C-arrays that were initially defined as C++ vectors. 12/02/08: Code is now being integrated and tested to ensure that all the converted code will work together. These are initial tests and there is still a lot of testing left to do before it will be certified as deliverable. 01/14/09: Level-0 read routines are being tested along with the production QC reports. So far testing is going well with a few bugs being found and fixed along the way. 01/28/09: Integration testing of the preliminary version for Build1 continues. Work to clear up reading the Level-0 data properly in C++ are being worked. 02/25/09: Plans for delivery of Build1 in April have been made and as of this date, no major problems with this date have been found.
CER1.2P1 -- Pre-ES8 generator	9/15/2008	2/15/2009	3/1/2009		Minimal changes anticipated to existing C-code
Scripts	1/15/2009	2/15/2009	3/1/2009		
Test Plans & other documentation	N/A	2/1/2009	3/1/2009		Updates may or may not be required for this to the documentation.
Build 2 -- PreLaunch Freeze					

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CER1.2P1 -- Pre-ES8 generator	6/15/2009	8/15/2009	10/15/2009		Fully functional support for Terra/Aqua and NPP
CER1.0P2 -- Updated RDR L0, eph/att	6/15/2009	8/15/2009	10/15/2009		Update as necessary after NCT#3 testing. This may include bug fixes or changes in RDR format from the documented formats.
Test Plans & other documentation	N/A	9/15/2009	10/15/2009		Updates may or may not be required for this to the documentation.
CER1.1P8	10/15/2009	11/30/2009	12/1/2009		Fully functional support for Terra/Aqua and NPP
Test Plans & other documentation	N/A	11/30/2009	12/1/2009		Updates may or may not be required for this to the documentation.
Build 3					
CER1.4P1 -- BDSI Subsetter	4/15/09 (0 - 25%)	TBD	TBD		Work will not begin on this PGE until after all updates to support NPP launch have been completed 01/28/09: Work on conversion of this PGE to C++ has begun. This PGE allows for the testing of the HDF read and write routines for the BDS without interference with the integration efforts for CER1.1P8. 02/25/09: The priority for this PGE will move up now that the preprocessor has been delivered to CERES CM.
CER1.4P2 -- Gain Analyzer	TBD	TBD	TBD		Work will not begin on this PGE until after all updates to support NPP launch have been completed
CER1.4P3 -- BDS Edition2/3 processor	TBD	TBD	TBD		Work will not begin on this PGE until after all updates to support NPP launch have been completed
Test Plans & other documentation	N/A	TBD	TBD		Updates may or may not be required for this to the documentation.
Build 4 -- Post Launch Edition1 Updates					

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CER1.1P8	Launch+5	Launch+7	Launch+9		Updates to ancillary data and possible problems found on orbit
CER1.2P1	Launch+5	Launch+7	Launch+9		Updates to ancillary data and possible problems found on orbit
CER1.3P1	Launch+5	Launch+7	Launch+9		Updates to any ancillary data files and any problems found with updates to support NPP
CER1.3P2	Launch+5	Launch+7	Launch+9		Updates to any ancillary data files and any problems found with updates to support NPP
CER1.3P3	Launch+5	Launch+7	Launch+9		Updates to any ancillary data files and any problems found with updates to support NPP
Test Plans & other documentation	N/A	TBD	TBD		Updates may or may not be required for this to the documentation.

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CER1.1P1-6	New IBM Platform	Code for delivery for SCCR#610 can support this effort. (50-75%)	Ready for port to new platform 6/26/08	Supported by existing delivery for SCCR #610, new expected output would need to be provided.		Code supports Terra and Aqua Ops on the Target Machine. Requires Ada compiler, Toolkit, CERESlib and possible new C-version of CERESlib Metadata. 9/22/08: New platform is available. Work to transfer over existing code and compile the main subsystem will begin this week. 10/08/08: Work to get the correct set up for CERESlib, etc. has begun. Currently still working to compile all of the code. 11/18/08: Ada compiler requires 32-bit TK, waiting for it to be completed. 12/02/08: No updates at this time for this PGE. Waiting for conformation that the 32-bit TK has been built and that CERESlib has also been built and tested under the 32-bit TK. 12/17/08: GNAT Ada compiler installed on asdcsm1. Successful compilation of the subsystem has occurred, however a problem with an HDF routine has been discovered and is now being investigated.
						01/14/09: 01/14/09: A problem with the Toolkit on the x86 was discovered. This is a problem that was found when testing on the SCF machines. A fix for this problem was developed by Kam-Pui Lee and implemented by Scott Zentz at the SCF, however, it appears to be missing from the x86 version of the Toolkit. A successful run of PGE CER1.3P1 has been done, however a problem with the HDF compression was discovered.
						01/28/09: Continue work to port the system to the x86. Work is currently focused on reading the Level-0 data in a little-endian environment.

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						<p>02/25/09: Initial versions of the ancillary data files used to support this PGE for FM5 are ready for integration into the PGE. Final testing of the CER1.1P7 NPP-FM5 PGE are beginning in preparation for the delivery. The Test Plan and Operator's Manual will be updated once they have been delivered for CER1.0P2 the NPP-FM5 RDR preprocessor, which was delivered last week.</p>
CER1.2P1 (already in C)	New IBM Platform	6/26/2008 (>75%)	Ready for port to new platform 6/26/2008	Supported by existing delivery for SCCR #610, new expected output would need to be provided.		<p>Code is already in C and a run of this code supporting Terra and Aqua can be performed whenever the new system is available. It may be possible to update the code to use the new C-version of CERESlib Metadata if it is available before the new system is ready for testing.</p> <p>9/22/08: New platform is available. Work to transfer over the existing code and compile this PGE will begin this week.</p> <p>10/21/08: The code has been compiled and run on the x86 testbed, however the output products do not match expected results and may be due to little-endian. This effort has been put on hold to play with the Ada compiler on the x86 platform.</p> <p>12/17/08: Updates to do a byte-swap on a Pre-ES8 have been made on asdcsm1 and the data has been found to be scientifically equivalent to data created on warlock.</p> <p>01/14/09: A routine to byte-swap the output Pre-ES8 has been written and the data compared to results created on warlock. The files were found to be identical once the byte-swap routine had been run. It may mean that a post-processor may need to be added to the software for this platform.</p>

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CER1.3P1	New IBM Platform	Code for delivery for SCCR#610 can support this effort.	Ready for port to new platform 6/26/08	Supported by existing delivery for SCCR #610, new expected output would need to be provided.		Code supports Terra and Aqua Ops on the Target Machine. Requires Ada compiler, Toolkit, CERESlib and possible new C-version of CERESlib Metadata. 9/22/08: New platform is available. Work to transfer over the existing code and compile this PGE will begin this week. 12/17/08: GNAT Ada compiler installed on asdcsm1. Successful compilation of the subsystem has occurred, however a problem with an HDF routine has been discovered and is now being investigated. 01/14/09: A successful run of PGE CER1.3P1 has been done, however a problem with the HDF compression was discovered. This problem may be related to the Toolkit problem above (CER1.1P1-6) and that should be fixed before deciding that the problem lies in the compression software.
CER1.3P2	New IBM Platform	Code for delivery for SCCR#610 can support this effort.	Ready for port to new platform 6/26/08	Supported by existing delivery for SCCR #610, new expected output would need to be provided.		Code supports Terra and Aqua Ops on the Target Machine. Requires Ada compiler, Toolkit, CERESlib and possible new C-version of CERESlib Metadata. 9/22/08: New platform is available. Work to transfer over the existing code and compile this PGE will begin this week.
CER1.3P3	New IBM Platform	Code for delivery for SCCR#610 can support this effort.	Ready for port to new platform 6/26/08	Supported by existing delivery for SCCR #610, new expected output would need to be provided.		Code supports Terra and Aqua Ops on the Target Machine. Requires Ada compiler, Toolkit, CERESlib and possible new C-version of CERESlib Metadata. 9/22/08: New platform is available. Work to transfer over the existing code and compile this PGE will begin this week.
Updates to Test Plan/Ops Manual	New IBM Platform	TBD	TBD	TBD		Update to add information needed for CM and SIT to test on the new IBM Platform

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CER1.1P1-7	Warlock/New IBM Platform	10/15/2008 (>75%)	11/15/2008	1/15/2009		Code would support Terra/Aqua and NPP. Updates to include new C-version of CERESlib Metadata and changes to allow support of NPP-FM5. 10/21/08: Updates to run the FM5 calibration data have been started and are now being tested. Tests are currently failing and investigation into the failure is being done now. 02/25/09: Initial FM5 ancillary data files are now available and the code has been updated to allow processing of FM5. A delivery in mid-March to warlock will be made, if possible at that time a delivery of code to run on the x86 may also be included in this delivery.
CER1.2P1 (already in C)	Warlock/New IBM Platform	10/15/2008	11/15/2008	1/15/2009		Code would support Terra/Aqua and NPP. Updates to include new C-version of CERESlib Metadata and changes to allow support of NPP-FM5.
Updates to Test Plan/Ops Manual	New IBM Platform	TBD	TBD	TBD		Update to add information needed for CM and SIT to test on the new IBM Platform
<p>NOTE: The first two PGEs listed above would be existing versions of the Terra/Aqua code and would be ready for testing on the new platform as soon as it has been configured for this testing. The second two PGEs would be modified to support NPP-FM5, which should only require minor updates to each PGE.</p>						