NWP SAF SOFTWARE DEVELOPMENT RECORD

Originator: **Andrew Smith**	Organisation: Met Office	Date submitted:
Deliverable name: **NWPSAF Radiance Simulator**	Previously released version number (if applicable): New version number: 1.0	Type of Release: [X] ORIGINAL [ ] MAJOR CHANGE [ ] MINOR CHANGE

DEVELOPMENT DESCRIPTION
Synopsis (one-line summary): Original release of package to simulate radiances from current and planned instruments
Description: The following features are included in the first release of the NWP SAF Radiance Simulator: • Ingest of NWP model fields. Initial formats supported are Met Office fieldsfiles/PP files, (ECMWF) GRIB, NWP SAF diverse profile datasets (60 and 91L). • Specification of observation locations and geometry via a simple ASCII input file. • Support for RTTOV-11 • Output of simulated radiances / brightness temperatures in a netCDF file.

DEVELOPMENT APPROVAL	
Prior SG approval required: YES	
If "YES" - SG decision Approve	Summary of decision: Date: 2013 Activity is an integral part of the NWP SAF document "Proposal for a Continuous Development and Operations Phase (CDOP-2)"
Team Leader approval	Name: W Bell Date: 2013
NWP SAF Manager approval	Name: B Conway Date: 2013

SCIENTIFIC REVIEW (see DPSD section 3.1.2)	
Review action	Description, references, etc.

DEVELOPMENT LIFECYCLE RECORD			
Activity	**Performed**	**Approved**	**Comments … (including document references, file locations and a justification if the activity has not been performed)**
Test Folder created	Performed by Name A. Smith Date 14/02/2014		Test folder created at /home/h02/frjs/radsim/test/ Beta release code and documentation stored at /home/h02/frjs/radsim/release/1.0_beta
Beta-testers appointed	Performed by Name A. Smith & W. Bell Date 03/02/2014	Approved by Chiara Piccolo Date: 25/09/2014	Reima Eresmaa (ECMWF) and Andrew Collard (NOAA) agreed by email to do the testing.
Product Specification generated	Performed by Name A. Smith & W. Bell Date 14/02/2014 (initial draft)	Approved by Simon Keogh Date: 24/09/2014	The product specification can be found in document NWPSAF-MO-DS-027.
Top Level Design generated	Performed by Name A. Smith & W. Bell Date 14/02/2014 (initial draft)	Approved by Simon Keogh Date: 24/09/2014	The Top Level Design can be found in document NWPSAF-MO-DS-028.

Test Plan generated	Performed by Name A. Smith Date 01/08/2014 (initial draft)	Approved by Simon Keogh Date: 24/09/2014	The Test Plan can be found in document NWPSAF-MO-TV-036
Module Design generated and approved	Performed by Name N/A Date	Approved by … Name: Date:	
Module tests recorded in Test Folder	Performed by Name N/A Date	Approved by Date:	As described in the Test Plan, all constituent code elements are linked to a single top level program and therefore not tested individually..
Integration tests recorded in Test Folder	Performed by Name A. Smith Date 20/08/2014	Approved by Chiara Piccolo Date: 25/09/2014	A summary of the results is recorded in the Test Plan.
Validation tests recorded in Test Folder	Performed by Name A. Smith Date 20/08/2014	Approved by Chiara Piccolo Date: 25/09/2014	A summary of the results is recorded in the Test Plan.

Portability tests recorded in Test Folder	Performed by Name A. Smith Date 20/08/2014	Approved by Simon Keogh Date: 24/09/2014	A summary of the results is recorded in the Test Plan.
Beta testing completed, reports and responses recorded in Test Folder	Managed by Name A. Smith Date 23/09/2014	Approved by Simon Keogh Date: 24/09/2014	A summary of the results is recorded in the Test Plan.

APPROVAL FOR RELEASE			
DRI required: YES			
If "YES" - DRI outcome	Summary of outcome:		Date:
Team Leader approval	Name:	William Bell	Date: 19/09/14
NWP SAF Manager approval	Name:	Chiara Piccolo	Date: 25/09/14
SG release authorization	Evidence: N/A		Date:

DISTRIBUTION

Release Date:	Comments: