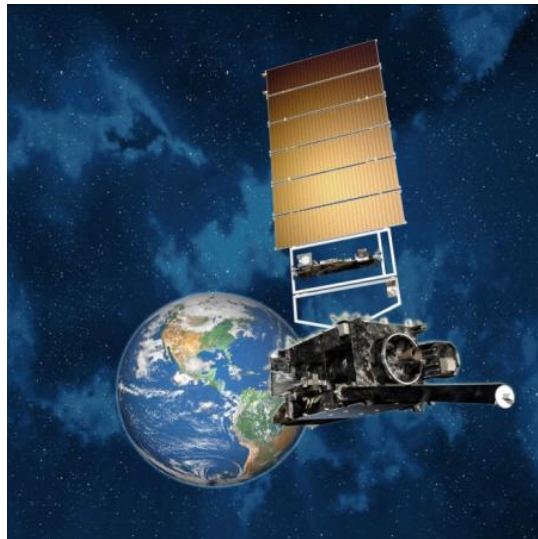


LZZS De-Commutation Operations Tool Version Description Document (VDD) For The GOES-R Space Environment In-Situ Suite (SEISS)

SEISS-VD-OT060-1, Rev B

3 April 2020



**Prepared For:
National Aeronautics & Space Administration
Goddard Space Flight Center
Greenbelt, MD 20771**

**(CDRL 060)
Under Contract Number NNG06HX01C**

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Record Of Changes

Revision Letter	Date	Title or Brief Description	Entered By
–	14 October 2016	Released To Production Per ERN SEISS342	B. Brown
A	6 February 2017	Revised per CCN001	B. Brown
B	3 April 2020	Revised per CCN002	B. Brown

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1.0 SCOPE

1.1 Identification

The Geosynchronous Operational Environmental Satellite - Series R (GOES-R) contains the Space Environment In-Situ Suite (SEISS) for measuring the geosynchronous altitude space particle environment.

SEISS consists of a Data Processing Unit (DPU) and four (4) particle instruments designed by ATC, as well as one particle instrument designed by the University of New Hampshire (UNH), the SEISS Energetic Heavy Ion Sensor (EHIS). The Electrical Ground Support Equipment (EGSE) Is Used For The Performance Verification And Data Collection Of The SEISS. This document is the Version Description Document (VDD) for the LZSS De-Commutation Tool.

1.2 System Overview

The SEISS System Architecture consists of a dual redundant data processing unit (DPU) (including dual SEISS data processing, control and power converter unit functions) and 5 particle sensors. These sensors report telemetry to the ground systems where they are stored and NetCDF format and distributed. These files must be converted to a format that all other SEISS operations tools use as input. This conversion is done with the LZSS De-Commutation Tool.

1.3 Document Overview

The purpose of this document is to document the current version of all source code files used to build the LZSS De-Commutation Tool.

Section (3) of this document documents the versions of all source files.

2.0 REFERENCE DOCUMENTS

Table 2-1. Reference Documents

Document	Document Number	Version
LZSS De-Commutation Operations Tool Data Delivery Package for GOES-R SEISS	SEISS-D-OT060-1	B

3.0 LZSS DE-COMMUTATION TOOL FILES

Path and File Name	File Revision	Last Modified Date
batch_process.py	299	2020/03/25
dropped_packet_check.py	299	2020/03/25
filter.py	299	2020/03/25
gui.py	299	2020/03/25
log_renamer.py	299	2020/03/25
lzss_tool_setup.json	299	2020/03/25
main.py	299	2020/03/25
NetCDF_Translator_Batch.exe	174	2017/02/06
NetCDF_Translator_Batch.sln	114	2016/09/23
NetCDF_Translator_Batch.vcproj	114	2016/09/23
Translator_Batch.cpp	174	2017/02/06
Translator_Batch.h	114	2016/09/23
/GOES/ports	138	2016/10/13
/GOES/egse/ComPorts.txt	138	2016/10/13
/GOES/egse/EGSEMain_NoDAQ.exe	174	2017/02/06
/GOES/egse/README.txt	138	2016/10/13