



# System Acceptance Review meeting for ESTIA

ESTIA Chopper System  
=ESS.NSS.H01.ESTIA.A01.R01

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# Status Report

## ESTIA Chopper System

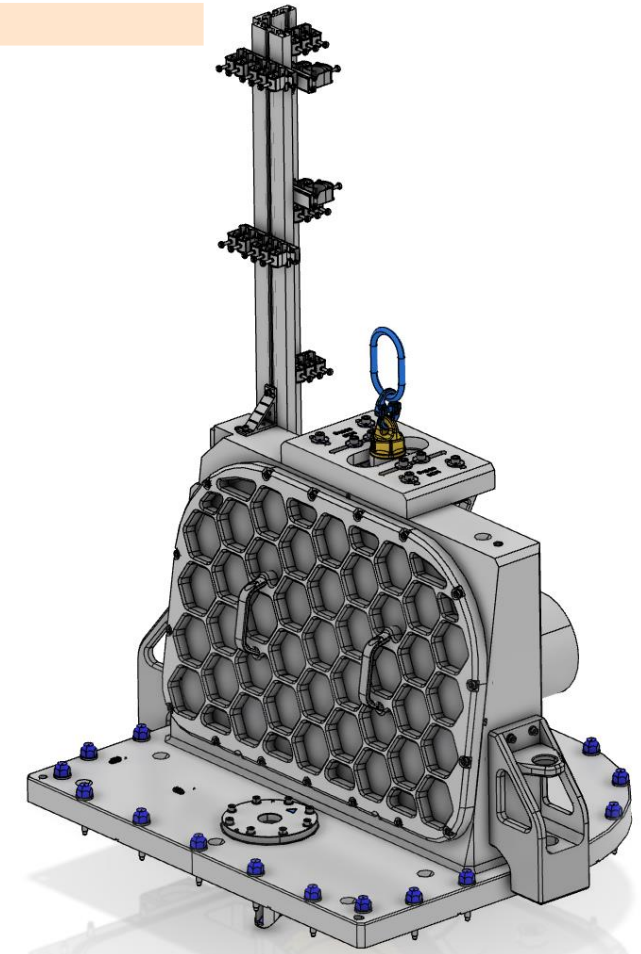
### Status:

- Installed and commissioned
- Integrated and tested in all control layers



System name	FBS	EPL	CR	Deferred	FAT	SAT	Decl. of Conformity
ESTIA chopper system	ESTIA.A01.R01	ESS-3873745	No	No	ESS-4178137	ESS-5865963	No

- Mixed system delivery
  - Design by PSI
  - Disc and enclosure supply by PSI
  - Spindle and controller by SKF
  - Rack and electrical design by ESS
  - Integration and commissioning by ESS
- Single disc slow speed chopper assembly.
  - BC-101 – 700mm 14Hz
- One chopper rack
  - One standard chopper control rack



ESTIA Chopper  
R01.R01.R01



# Status Report

## ESTIA Chopper System

- SAT performed
  - ESS-5865963 – SAT protocol
  - ESS-5931676 – User and maintenance instruction
- System is working as intended
- Systems ready for hot commissioning
- No identified operational issues
- CE marking missing, planned as part of larger chopper scope.

Test case		Pass/Fail	Note
1.	Verification of system document completeness	Pass	
2.	Deferred tests from ingoing FATs	N/A	
3.	Verification of installed positions of mechanical assemblies	Pass	
4.	Verification of mechanical chopper interfaces	Pass	
5.	Verification of system remote handling capabilities.	Pass	
6.	Verification of mechanical assembly installation quality	Pass	
7.	Verification of cooling system	N/A	
8.	Verification of system electrical isolation and grounding	N/A	
9.	Verification of rack electrical system	Pass	
10.	Verification of external sensors	Pass	
11.	Verification of chopper performances	Pass	
12.	Verification of chopper control via epics	Pass	
13.	Verification of timing system	Pass	
14.	Verification of vacuum levels and leak rates	Pass	



# Hot commissioning

## ESTIA Chopper System

- System ready for hot commissioning – SAT passed.
- Chopper group planned activities for hot commissioning:
  - Support instrument team with chopper related issues.
  - Technician support if requested.
  - Engineering support if requested.
  - Scientific support if requested.
- User and maintenance manuals available – ESS-5931676
- Displaced working hours available if required.
- Currently no on-call support available.