 PRODEX EXPERIMENT ARRANGEMENT CHANGE NOTICE	
PEA: 4000134494 CN No: 2 Institute: Institute of Atmospheric Physics (IAP) of the Czech Academy of Sciences Project: DFP/DAPU Electronics for Comet Interceptor – Phase B/C/D	
Title of area affected: - Funds and term	Article(s) of the Arrangement: 2 and 3 Initiator of change: ESA
Description of change: - Extension of the contract to cover phases C/D with additional funding - Costs for 2022 updated to reflect real expenses, remaining budget used in 2023/2024	
Reason for change: - Approval of C/D funding	
Funds: in addition to those stipulated in Article 2.1: 766 260 EUR See updated Financial Plan in annex. Total amount LoL including present CN: 920 704 EUR	
Effect on other Arrangement provisions: N/A	Commencement of Term: 01/01/2021 End of Term: 31/12/2029
Institute	
Institute's representative(s): 19.4.2023	
ESA	
PRODEX Office representative(s): 17.4.2023	

1. WORK DESCRIPTION

The aim of this PRODEX Implementation Contract is the development of the Dust Analyzer & Processing Unit (DAPU), which is a part of the Dust, Field and Plasma instrument (DFP) led by CBK Warsaw, Poland. The DAPU instrument for both mother and one daughter spacecraft (DAPU-A and DAPU-B2) will be provided by the Institute of Atmospheric Physics (IAP) of the Czech Academy of Sciences (CAS) in the role of a Co-Principal Investigator of DFP responsible for DAPU. This project will secure for the Czech space plasma physics community a participation in the Comet Interceptor mission, allowing to build on the long heritage and scientific experience of the team at IAP.

1.1. Description of the DFP instrument

The Dust, Field and Plasma instrument boxes (DFP-A and DFP-B2) accommodate sets of instruments dedicated to measurements of plasma and dust parameters and to measurements of electromagnetic fields. The set of DFP instruments on the mother spacecraft A consists of the microdust detector DISC, the magnetic field measurement FGM, the Langmuir probe instrument for plasma density & temperature, electric field and nanodust measurements COMPLIMENT, the electron detector LEES, ion detector SCIENA and the dust analyzer and processing unit DAPU. A subset of DFP sensors and one DAPU-B unit will be placed at the B2 daughter spacecraft of the Comet interceptor mission. The block schemes of DFP-A and DFP-B2 units are shown in Fig. 1 and 2.

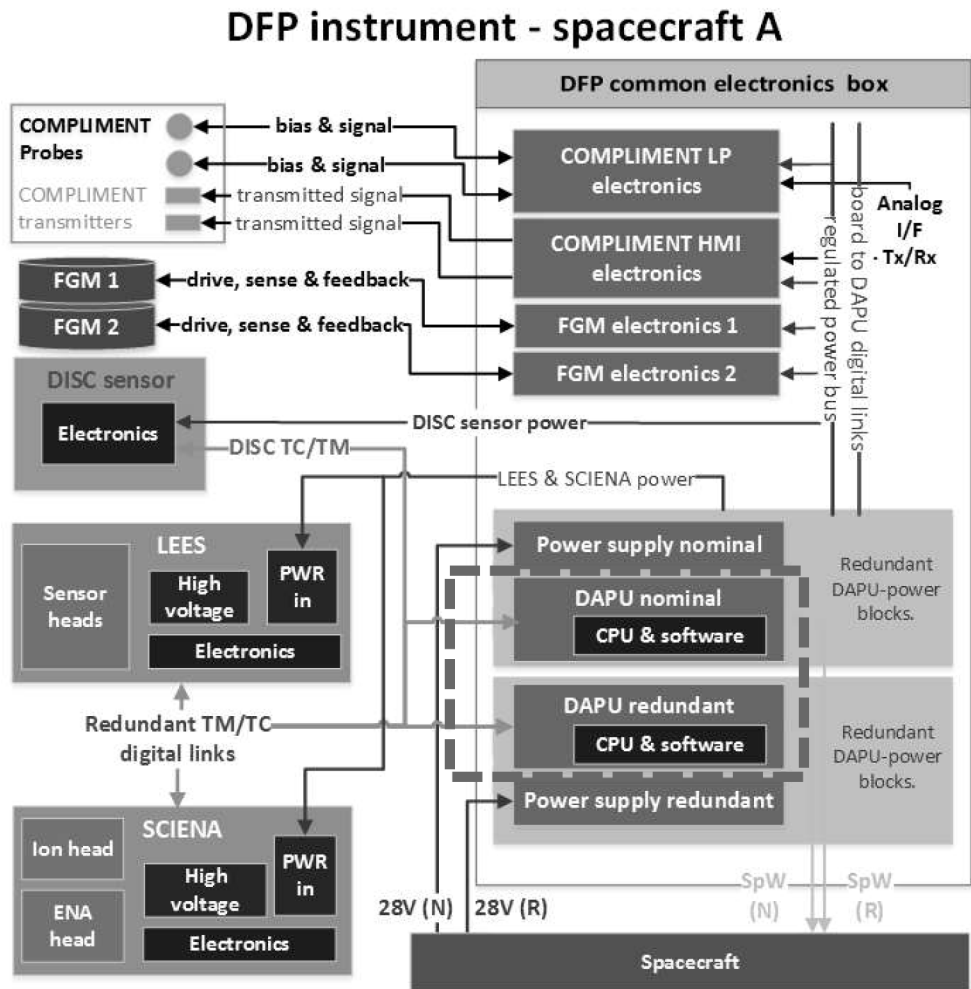


Figure 1: Block schematics of the DFP-A unit. The magenta rectangles delimit the proposed contribution.

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