

PDR RID Report

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Document PDR

RID ID	PDR	410
Review	SDPS	
Originator Ref	Ingest Sizing	
Priority	2	

Section

Page

Figure Table

Category Name Design-Ingest/Requirements

Actionee Project

Sub Category

Subject Is the Ingest System capacity adequate?

Description of Problem or Suggestion:

While the entire system has been sized as 1.2 x going to 4.2x via the AHWGP process, it is not apparent that the individual storage systems have been sized accordingly. In particular, is the 2x capacity for the ingest system appropriate? If we need to re-ingest data from EDOS in an operational mode, the system may fail.

Originator's Recommendation

HAIS needs to demonstrate that all components of the ECS are sized correctly (at least as allowed by the budget). Rationale for 2x requirement should be looked at by project to ensure the requirement is sufficient.

GSFC Response by: Dan Marinelli

GSFC Response Date 7/13/95

The item within the Ingest Subsystem that is sized for 2x daily ingest volume is the working storage magnetic disks. Working storage provides temporary storage for data as it is ingested, while basic quality checking and metadata extraction is performed, and astaging for transfer of data to other subsystems. As the basic ingest functions are completed, the Level 0 data is written from working storage to the Level 0 rolling storage device, which is sized for storage of the level 0 data for a period of one year. As data is written to rolling storage, working storage space is freed for the ingest of additional data.

Neither ECS nor EDOS is sized to allow re-ingesting data from EDOS in an operational mode. The assumption is that reprocessing will be done from Level 1A data held in ECS archive or, if the data is less than one year old, from the Level 0 data stored in ECS pursuant to DADS0487 (store EDOS production data sets for at least one year).

Hughes is doing performance simulation modeling which should lead to appropriate sizing of the various components of the ECS (in particular the data servers) to be able to handle the stochastic loads implied by the AHWGP data and the performance requirements of the F&PRS.

HAIS Response by:

HAIS Schedule 5/22/95

HAIS R. E.

HAIS Response Date

Status **Closed**

Date Closed **7/21/95**

Sponsor **Blake**

***** Attachment if any *****