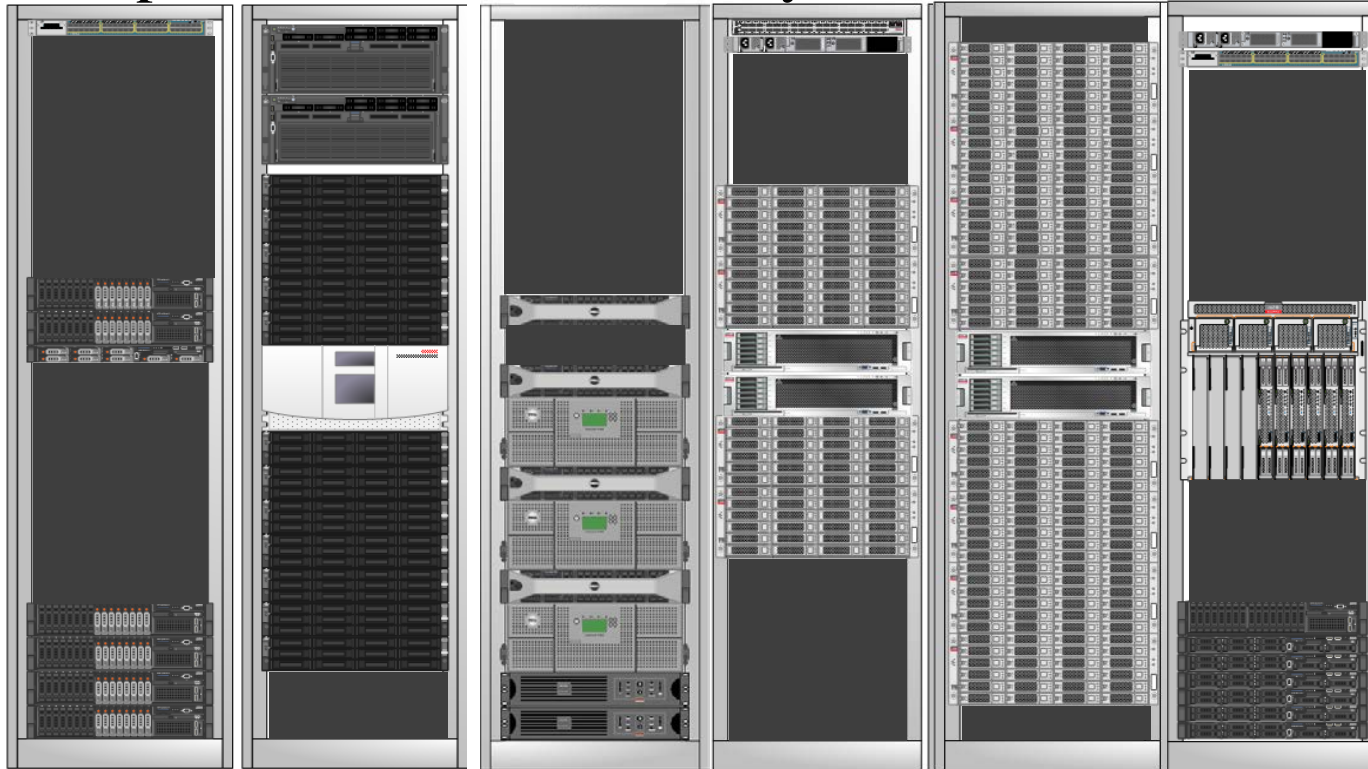# ARM Data Center

Computing and Storage Resources

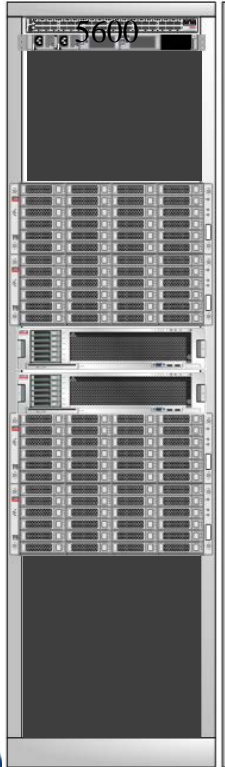**Rob Records**

ARM Data Center

ARM DATA CENTER

Operated and maintained by DMF and Archive

- Consolidated Architectures
- Increased Capacity
- Clustered environment to increase data flow and processing capability

ADC Generation 1: Shared Storage Resource

Shared

Resource

5600

Currently: Two data pools for a total of 167 TB and 236 TB
- Expanding each pool to approximately 400TB each by end of June 2016.
- Capable of expanding this resource (ADC Gen1) to 1.9PB

- /data/archive and /data/project
- /data/archive is a pool of data staged as online file that are readily available to both operational and research users.
- Current policies are posted in ECO 1125 in DRAFT form
- Currently, policies are being monitored and executed via manual intervention.
- Both pools are actively being utilized for operational uses

ARM
CLIMATE RESEARCH FACILITY

U.S. DEPARTMENT OF ENERGY | Office of Science

Data Project Policies & Procedures

- A request should include:
    - User names
    - Name and description of project
    - Anticipated "start date"
    - Requested duration – anything over 90 days requires a justification and approval of the justification.
    - Required space
    - Backups are not performed of user's data in this shared work space. The resources are not available, at this time, to provide project level backups.
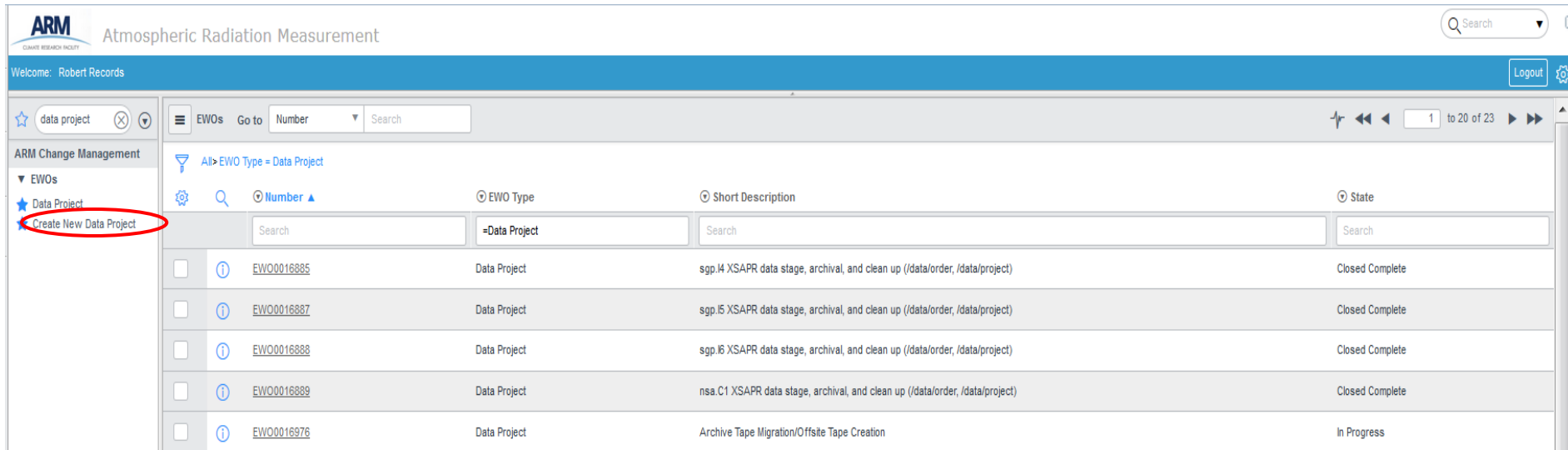
Note: Request submission does not guarantee immediate approval and project setup. Project approval is based on resource availability and the approval of request requirements. If resources are not available the request will go into a queue until proper resources are available. The requester will be notified on resource availability.

A more detailed set of Policies for data project use can be found within ServiceNow in ENG0001125.

How to Request /data/project Resources

ARM/SARS account to access computational resources required, as well as, access to ServiceNow to submit a Data Project request.

ServiceNow: https://armcrf.service-now.com

How to Request /data/project Resources

Left form:

Requester Name:
Robert Records

* Describe the project and why you need this space.

* Provide a brief unique label for this request.

* When do you expect to start this work?

* How long does the data need to be retained on data/project?

Requested Duration
▶ More Information

If the duration is beyond 90 days, provide a detailed justification.

* How much space do you expect to require?
▶ More Information

* Specify datastreams:

* Affected Sites:

Collection
List

-- No site(s) affected --
AAF
ACX
ALL
ARCHIVE
ASI
AWR
DMF
DQ
ENA
FKB
GAN
GRW
HFE

--None--

Right form:

* Description
User name:
Nicole Keck

Name and description of project:
Post and Re process sgp.l4 xsapr data
RID 1089, EWO 15937

Anticipated „Äústart date„Äù:
March 2015

Requested duration:
4 months (until complete)

Required space:
Not sure.
Need the following datastreams in their entirety:
sgpxsaprhsrhll4
sgpxsaprppll4
sgpxsaprvadl4
sgpxsaprvptl4

* DP Name/Project Descripton
Post and Re process SGP l4 xsapr data

* Affected Site(s)   ARCHIVE

Affected Facilities

* DP Requester Name   Nicole Keck

* DP Anticipated start date   2015-03-01

* DP Retention Date   2015-04-30

DP Requested duration   60 Days

DP Justification

* DP Required space   n/a

* DP Datastreams
Need the following datastreams in their entirety:
sgpxsaprhsrhll4
sgpxsaprppll4
sgpxsaprvadl4
sgpxsaprvptl4

DP Approved Date