

INTRODUCTION

As science becomes more interdisciplinary and weaves together different administrative units, responsibility for support and management can become unclear. This proposal attempts to address this issue while improving the level of support service available to the entire science complex.

Science buildings are often planned in terms of lab areas, where bench science occurs, and core areas, which house shared instrumentation and scientific services such as vivariums, characterization suites, imaging resources, and so forth. Support services are equally essential and constitute a third type of activity and space need.

SERVICES

These are the traditional lab support services:

- Hazardous material management
- Radiation safety services
- Laboratory safety services
- Facilities support (plumbers, electricians, heating/ventilation techs, etc.)
- Chemical and supply dispensing

They may also be conceived to include other services, including:

- Laboratory management
- Receiving and shipping
- Chemical storage and dispensing
- Data and network management
- Cryogenic storage and dispensing

CURRENT ISSUES

- Central storage and handling of hazardous materials occurs largely currently at or near building air intakes. An simple spill could become much more serious if fumes are drawn through the adjacent buildings.
- Most of these services are currently provided in Onyx Bridge, one of the most seismically doubtful buildings on campus. Major structural failure due to an earthquake would have a large magnified effect of chemical spills into the air and water.
- The regulatory environment is changing, and the latest federal directives to increase tracking of a long list of hazardous chemicals will probably require a

system of centralized receiving of these materials, in addition to the centralized receiving of radioisotopes that we currently provide.

- The diffuse nature of the administration and staffing of these functions has served us well in buildings with very clear ownership, but that model may no longer work in the emerging interdisciplinary research environments.

PROPOSAL

We propose that this project create suitable, appropriate space within new or existing space for an integrated building support area to combine services and create an ongoing administrative presence. There is an opportunity to integrate support functions more broadly which could have significant staffing and level-of-service advantages. Does this need to be in the new building? Perhaps not, as long as services are provided at nearby locations that can provide services that are effective, safe, and efficient. However, presence in the building might provide a “front door” presence which has other tangible advantages: services to visitors, increased security, and so forth.

Optimal Proposal

A new Science Complex Support Center is created near a loading dock. It provides shared reception and receiving, has a shared library for maintenance materials (building plans, operating manuals, etc.), and includes or has access to a conference room for 20 to 25, shared with the rest of the building.

It also provides safe, efficient space for storage and processing of hazardous and radioactive materials, and connects to or is near office space for EHS and for Facilities Services Zone B. Science Stores is a connected part of this complex.

This new approach to support services creates significant space and staffing efficiencies, improves service quality, decompresses current crowding, and allows for the increased demand on services that the ISC projects represent. It also off-loads Onyx Bridge and Cascade Annex in anticipation of a future building replacing Onyx Bridge. Adequate areas for storage of hazardous materials will allow EHS to provide out-of-lab storage for researchers whose quantities exceed allowable limits, thus removing one sometimes troublesome constraint on certain types of research.

This proposal does not include space needed for outdoors storage currently provided at the Klamath Hall loading dock. This storage function is essential and needs to be accommodated somewhere in the science complex, but isn't being counted as it is not indoor, enclosed space.

Although not captured in this proposal, there could also be advantages co-locating these activities with a data center that serves the building to allow sharing of resources.

SPACE LIST - OPTIMAL PROPOSAL				
	<u>existing</u>	<u>net s.f.</u>	<u>grossing factor</u>	<u>g.s.f.</u>
Central receiving & reception	0	300		
Shared library: plans, O & M manuals	0	300		
Conference room (shared w/ building)	366	500		
EHS office	714	1500		
Hazardous material processing	712	1000		
Hazardous material storage	302	1000		
Science stores	3019	3000		
Facilities Zone B office	396	600		
Total		8200	1.8	14760
Release space (Onyx Bridge, Cascade Annex)	5509			
Net increase		2691		

Minimal Proposal

If a comprehensive approach isn't possible at this time, there are minimum elements that will be needed to service the additional load on these services, plus removal of hazardous material storage from Onyx Bridge. Under this scenario, no space would be released for other uses.

SPACE LIST - MINIMAL PROPOSAL				
	<u>net s.f.</u>	<u>grossing factor</u>	<u>g.s.f.</u>	
Central receiving	300			
Hazardous material processing	750			
Hazardous material storage	750			
Total	1800	1.8	3240	

A	B	C	D	E	F	G
SPACE LIST - CURRENT ASSIGNMENTS						
			net s.f.	grossing factor		g.s.f.
	Environmental Health & Safety					
	Onyx Bridge	72	122	office		
		72A	68	office		#VALUE!
		72B	92	office		
		73	350	office		
		73A	82	office		714
		74	302	haz. mat. storage		
		75	366	training		
		76	406	rad. waste proc.		
		76B	15	chem. waste proc.		
		77	305	chem. waste proc.		
	Zone B					
	Cascade Annex	160 suite	396	office		
	Willamette	1A	111	storage		
	Science Stores					
	Cascade Annex	102	91			
		103	103			
		104	91			
		106	108			
		107	605			
		109	1589			*includes ramps, circulation
	Onyx Bridge	92	94			
		94	85			
		96	143			
		98	110		3019	