

Real Estate Development + Facilities Project Document

RED+F PM Meeting, 11/5/13



Project Name:

Cyclotron and Radiochemistry Lab at 660 1st Ave.

This is a revision to a previously issued PD which was based on a Feasibility Study prepared by another MEP Firm.

This is the FTS name of the project. List additional names (AKA) if the project is referenced by different names by other departments.

Project Number:

SOM01-55-A-86000-101569-NYUPG

This is the project number contained in FTS.

[5-digit PIM

10177 Cyclotron/Radiochemistry Lab

Sub Projects

10928 Cyclotron Infrastructure

10929 Office Relocations

List any related sub projects that are contained in PIM.

Project Goals:

[Why this project is being undertaken? What will the project accomplish for NYULMC's mission?]

Describe the reasoning behind the project and goal, if there is a document existing then attach it as an exhibit to the project form.

Example:

The NYUMC Department of Radiology would like to unite clinical imaging and imaging across the NYULMC enterprise. The emerging MRI-PET and radiochemistry program has similarly united multiple clinical and basic science departments with shared interests in molecular imaging research. These new programs have led to a new collaborative model of faculty recruiting, targeting scientists who can serve as bridges between departments and lead to interdepartmental and programmatic research projects. **Refer to Exhibit 1 for entire Vision Statement**

This project will allow the Cyclotron and Radiochemistry Lab to be in the closest proximity to the imaging equipment that will use its products.

Project Description:

[Brief project description] of the scope of work and significant aspects of schedule, including phasing, relocations required, and significant operational impacts during construction. If the project has a particularly complex schedule or phasing, describe in enough detail to allow the reader to assess the impacts of these issues.]

Provide a Project Summary that includes the program elements

This project consists of a new Siemens Cyclotron with a Radiopharmacy Lab to be located on the 1st floor of 660 1st Ave and a new Radiochemistry Lab on the 2nd floor. These facilities will be designed to manufacture radiopharmaceuticals for positron emission tomography (PET) - compounding.



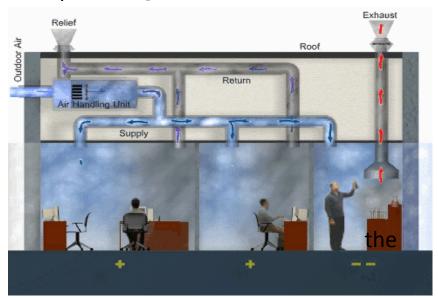
Project Description:

[Brief project description] of the scope of work and significant aspects of schedule, including phasing, relocations required, and significant operational impacts during construction. If the project has a particularly complex schedule or phasing, describe in enough detail to allow the reader to assess the impacts of these issues.]

This project will strongly impact the occupants of floors 5 and 6 which is the IVF Clinic. A shaft will be constructed on these floors, noise and vibration during construction needs to be further evaluated for operational impact and construction sequencing.

Project Scope:

[More detail about the work, typically including list of major program components.]



Discuss Major MEP infrastructure needs, these have a construction cost impact that raises your square footage cost and may not show up yet in the schematic design plans that are attached to the project form. It will explain why the SF costs are higher than normally seen.

The MEP infrastructure support for these two major program elements will require an area of approximately 5,000 square feet. This space is not available within the building and the roof is highly congested with existing MEP servicing the MRIs and other building functions. To enable this project a 2 story mechanical penthouse is being added to house the required MEP. The fuel oil tank in the cellar of the building will also be upgraded to comply with the building code.

Project Scope continued:

[More detail about the work, typically including list of major program components.]

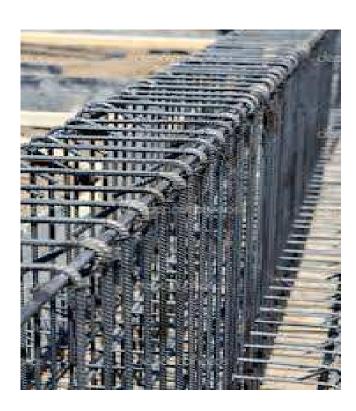
A new vertical shaft will be constructed through all floors up to the roof – Noted in project scope because of construction impact and project cost implications.

To bring services to the new 1st and 2nd floors labs a vertical shaft will be constructed from the 1st floor up to the penthouse (7 stories). The shaft will house the supply and return air ducts, chiller piping and the dedicated radioactive effluent exhaust duct from the cyclotron and hot radiochemistry lab.



Project Scope continued:

[More detail about the work, typically including list of major program components.]



Structural requirements that are beyond typical construction are noted in project scope because of construction impact and project cost implications.

To support the weights of the new Cyclotron equipment and Hot Radiochemistry Lab equipment a portion of the 1st and 2nd floors will be demolished and a new structural floor installed with new columns, beams and footings.

Project Scope continued:

[More detail about the work, typically including list of major program components.]

BDF and IDF closets being added to the project are noted in project scope because of both operations during relocation and project cost implications.



As part of this project, the building BDF room which is currently located in the Cellar will be relocated to the new penthouse in order to construct the new structural systems required by the program elements. The 1st floor IDF closet will be relocated on the 1st floor. The relocation of the BDF in the building requires re-cabling to every IDF closet located on each of the 7 floors of 660 1st and re-cabling to each floor of 650 1st Ave which is also served by this BDF room.

Development Process:

•[Describe the people in the user department(s) who have been part of the project team and their role in the process. List the support departments that are part of the project team.

Describe who RED+F interacts with during the design and construction phases of the project. Who will signoff to the design.

Department of Radiology Project Team:

- Dr. Michael Recht is the Chairman of the Department of Radiology and responsible for determining what major program elements will be included in the project.
- Donal Teahan is the Director of Practice Development and is the liaison between the end user requests and the RED+F design team. He signs-off to the design.
- Dr Kent Friedman is the Director of Nuclear Medicine and oversees that the end user's requests are consistent with the department of radiology's vision.
- Dr. Fernando Boada is a Radiochemist with the department of radiology who has previous experience with the design and construction of a cyclotron.
- Dr. Yu- Shin Ding is a Radiochemist and will be the director of the new Hot Radiochemistry Lab. She has been involved in the design development and layout of the radiochemistry lab.

Development Process:

Describe the process: include key points such as, was there a
feasibility study? What alternatives have been considered? Which
were rejected and why? Why was this alternative chosen? What were
key trade-offs? Explain the resolution of material differences
between the wants expressed by the user and support departments
and the resolution of them in the functional requirements
established for the project.

Describe and Attach the Feasibility Study if completed to the Project Form

A feasibility study was completed which involved verifying all existing site conditions with a broad overview of the buildings infrastructure capacities, and the ability to accommodate the program elements.

Different floors were examined but due to the extensive weight of the equipment we found that the most cost effective approach was to design on floors 1 and 2. All 4 existing MRI's on the 1st floor are to remain in their current locations; this limits the square footage that would be available on the 1st floor.

Development Process:

 A face-to-face meeting with the user to review the Schematic Design is a key part of the design development process. Note when that meeting occurred and who attended. Describe any significant discussion and how any issues that surfaced at that time were resolved.]

Note that the design drawings were signed off and attach to the project form

Several design review meetings were held with the end users during the feasibility and schematic design phases where design options were presented. The schematic design plan was approved and signed off on September 28th, 2013.

Square Feet:

• [Generally listed in GSF, but in some cases Net, Rentable or Usable SF may be relevant and should be listed also. Always identify type.

The Interior Gross Square Footage should be used: The sum of the areas on a floor of a building included within the inside face of the exterior walls.

Note Work that is excluded from the square footage such as window replacements, roof work, significant MEP replacement outside of the scope of normal renovation.

Floor Plan:

•[Insert or attach plans and indicate revision date. Attach the Space Program and the SD's.]

Project Budget:

•[Total project budget including contingency. Note key assumptions about the budget, e.g., major equipment will be leased so no purchase capital cost is included or the landlord contribution is excluded from the budget. Attach the Budget Fact Sheet.]

Note if the equipment cost is included in the budget

The project budget is \$20,500,000. This includes the Cyclotron and Hot Cell lab equipment.

Funding Source:

•[Insert the Capital Account Number if it exists; otherwise, note whether a capital request or modification is needed or identify another source of funds.]

Note where the funding came from and what fiscal year

Project Schedule

Project Document Signoff: 11/30/2013
User Signoff on Design: 9/28/2013
Construction Start: 3/10/2014
Move In: 12/20/2014
First Patient/User: 12/29/2014

Attach the project schedule Exhibit to the project form.

Anticipated Operational Impacts or Business Plan:

•[Summarize projected operational impacts identified by the project team. Include items such as lease costs, additional support staff, new or changed contractual service requirements, etc. Responsibility for identification and control of operational impacts rests with the user and support departments as the design is developed and the project evolves, however, the PM's role is to facilitate the process whereby these impacts are identified.]

Identify the additional personnel that will be needed by the Department .

Other Assumptions or Risks:

[Describe other key assumptions and risks not discussed above, e.g., leasing of required property by X date; no new air handler needed; specified space being vacated by X date; interference/coordination with other projects, e.g., necessary moves; permits; regulatory approvals required by a certain date; funding delays, etc.

Describe the ways that the risks will be mitigated, e.g., by making this a project that gets special CTIC oversight.

If areas are still under investigation, explain what and when and how they are to be resolved.]

List the risks and assumptions.

This project is dependent on a number of unique factors:

1. Certificate of Occupancy:

• Issuance of an updated DOB Certificate of Occupancy that permits the uses for the Radiopharmaceutical production and radioactive research proposed.

This project has eight additional permit requirements to supplement the standard DOB permit.

2. Regulatory approval from the NYSDEC, NYSDOH and City of NY for the following unique permits:

- •Abbreviated New Drug Application (ANDA) application for a U.S. drug approval for an existing licensed medication or approved drug —
- •ANDA-FDG, which is fludeoxyglucose (F18), radiopharmaceutical used in the medical imaging modality positron emission tomography (PET)
- •ANDA- NaF, which is Sodium Floride, A colorless solid, it is a source of the fluoride ion in diverse applications.
- •ANDA- NH₃, which is ammonia.
- •Radioactive Material (RAM) License for Preparation, State of NY
- •RAM License for Commercial Distribution State of NY
- •RAM Air Effluent Permit State of NY
- Pharmacy License State of NY
- •RAM License Research City of NY

Recognizing the above potential stumbling blocks, the team reached out to Siemens for regulatory permit guidance. The outcome was an agreement with Siemens that they will be responsible for all the above permit requirements with the exception of the RAM License for Research which NYUMC will obtain.

This project has major impacts on the MEP systems and structural infrastructure.

3. The project has the following impact on MEP and Structural Infrastructure:

- The Cyclotron and Radiochem Lab have significant MEP infrastructure needs including a new hot water plant, new chiller plant – complete with new cooling towers, chillers, pumps, and a dedicated air handler units. This infrastructure accounts for an approximate need of 5,000 SF for MEP.
- Significant Structural upgrades to the 1st and 2nd floors are needed to accommodate Cyclotron weights and Hot Cell (lead lined cabinet used to manipulate radioactive isotopes) weights.
- The above MEP and Infrastructure requirements will have a significant impact on construction sequencing and cost.

Project Dependencies:

[Describe whether this project is dependent on other projects and/or whether other projects are dependent on this project. Identify the other projects involved. If there are no dependencies, state that.]

The project is dependent on the following relocations:

- •Office relocations from the 1st and 2nd floors where the cyclotron and lab are to occupy.
- •Employee Health which occupies the 2nd floor will relocate to One Park Ave.

Project Team:

Architect and Engineer Design Team:

- Jack Gordon Architects Lead Architect
- •Stantec Cyclotron and Radiochemistry Lab Consultant
- •JB&B MEP/FP Engineering Consultant
- •Severud Structural Engineering Consultant

NYULMC Project Management

•Real Estate Development + Facilities

Project Management

Radiation Safety – Radiation Physicist

Information Technology

Environmental Health and Safety

Facilities Operations

Security

Outside Consultant Team:

- •Siemens "PETNET" Cyclotron and Radiopharmacy
- •AKRF Engineers Effluent Dispersion Study & Acoustical Consultant
- •Hughes Associates Building Code Consultant
- •Milrose Permit Expeditor
- •Kramer Levin Naftalis & Frankel Attorneys Zoning
- •Holland & Knight Attorneys Contracts
- Commissioning Agent TBD
- •CTSI Asbestos Consultant
- •LPE Management Project Management Consultant
- •Cost Estimators Accu-Cost, STV, and Phoenix Medical Construction
- Lovett-Silverman Project Schedule

Construction Team:

General Contractor or Construction Manager – TBD

AES - Asbestos Abatement Contractor

List of Exhibits to the Project Form

- Feasibility Report
- Vision Statement
- Architectural and Engineering Drawings
- Budget Fact Sheet
- Project Schedule
- Engineering Acoustical Report
- Roof Exhaust Study
- Aerial Photographs
- Building Code Analysis
- Zoning Analysis
- PET Chemistry Systems
- Hot Cell and Cyclotron Equipment cut sheets
- Gas Dispersion Modeling Air Quality Study
- Vibration Analysis Study
- Radiation Shielding Study

Approvals:	
Program Director:	Date:
SVP/FM:	Date:
SVP/VD_RFD+F·	Date:

Signatures:

Position	Date
Program Director:	
Project Manager:	
Senior Director Construction:	
Construction Project Manager:	
Senior Director, Finance & Administration:	
VP, Facilities Operations:	
Director, EH&S:	
Director, Security:	
Director, Radiation Protection:	
Director, Infection Control:	
Director, IT:	
Director, Housekeeping:	
Director, Nursing:	
VP, Real Estate:	
Other:	



Real Estate Development and Facilities Radiochemistry Lab & Cyclotron Relocate Employee Health

	,830	- 1st Fir Cyclotron, 2nd Fir. Radiochemistry Lab, Fig. 1. Rescription	Relocate Employee Health Current Budget	6/18/2012 Notes
SF: 9	,830	(Description		Notes
SF: 9	,830	(Description		Notes
Hospital SOM		{====================================	 -	Notes
	 	Construction <		
 	}- 	, I	\$8,446,428	
 		Consultant Fees	\$1,375,000	
-		Asbestos Abatement Related Costs	\$265,000	
	= }:	Furnishings	\$120,000	
		Movable Equipment <\$500 Movable Equipment >\$500	\$0, \$0,	
	}-	Audio / Visual	\$300,000	
	 	Signage and Wayfinding		
		Moving	\$25,000	
	-	Relocations	\$25,000 \$300,000	
		Information Technology		
	= } :	Legal Services	\$30,000	
		Security/Locks	\$40,000	
	-	Miscellaneous/Other Capital Expenses	\$ <u>198,696</u>	
	E	Contingency Subtotal:	\$1,677,019i \$12,857,143i	15%
		NYUMC Project Management	642,857	5%
	}	TOTAL		
ar water	•			
		Project Cost/sf Construction Cost/sf	\$1,373 \$859	
N	otes:	FEASIBILITY STUDY PHASE PROJECT BUDGI This Budget Does Not Include the MRI-PET pl Budget includes relocation of Employee Hea	roject	
		Cyclotron Equipment Radiochemistry Lab Equipment (5 HotCells)	\$2,500,000 \$2,000,000	
		Total Project Cost w/ Equipment	\$18,000,000	

DESCRIPTION			QTY	UNIT RATE		TOTAL
Construction						
		(replace cooling tower)				350,000
First Floo	r Cyclotron					2,604,971
	oor Radiochemistry					3,527,600
Relocate 1	Employee health - 2n	d floor for Radiochem				1,196,000
overtime	work shift allowance					767,857
		ESTIMATE				
TOTAL	onstruction				\$	8,446,428
Consultant Fee	s					
A/E Contr	act				\$	1,375,000
TOTAL	onsultant Fees				\$	1,375,000
sbestos Abate	ment Costs					
TESTING	CONSULTANT		1	\$ 35,000	\$	35,000
Cyclotron	ABATEMEN	TT .	1	\$ 80,000		80,000
Radiochen			1	\$ 100,000	\$	100,000
Roof	ABATEMEN		1	\$ 50,000	\$	50,000
Kooi	ADATEMEN	VI.	1	5 50,000	3	30,000
TOTALA	sbestos Abatement C	osts			\$	265,000
urnishings						
Cyclotron			1	\$ 25,000	\$	25,000
Radiochen			1	\$ 35,000	\$	35,000
Employee	health		1	\$ 60,000	\$	60,000
TOTALE	urnishings				\$	120,000
TOTALL						120,000
loveable Equip	oment <\$500					
ESTIMAT	E / ALLOWANCE				\$	-
TOTAL	Ioveable Equipment	<\$500			\$	-
1oveable Equip	oment >\$500					
ESTIMAT	E/ALLOWANCE		1		\$	-
TOTAL	Ioveable Equipment	>\$500			\$	
	ioveable Equipment	9300			ų.	
udio / Visual	and Radiochem F	DEC safety monitoring	1	\$ 150,000	\$	150,000
	ce rooms	DEC salety monitoring	2	\$ 75,000	\$	150,000
TOTALA	udio / Visual				S	300,000
						,
ignage and W	ayfinding					

ESTIMAT	E / ALLOWANCE		1	\$ 30,000	\$	30,000

oving						
EQUIPMENT/FURNITURE MOVE	SALLOWANCE	1	\$	25,000	\$	25,000
EQUI MENT/FORNITORE MOVE	3 ALLO WAINCE	1	\$	-	\$	23,000
			-		<u> </u>	
TOTAL Moving					\$	25,000
locations						
ESTIMATE / ALLOWANCE		1	\$	25,000	\$	25,000
ZSTIMITE, MZZO WIECE			-	20,000	<u> </u>	20,000
TOTAL Relocations					\$	25,000
formation Technology						
Cualatran	ALLOWANCE	1	\$	150,000	\$	150,000
Cyclotron Radiochemistry	ALLOWANCE	1	\$	150,000	\$	150,000
Radioenemstry		1		130,000	J	150,000
TOTAL Information Technology					\$	300,000
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twork			-			
ESTIMATE / ALLOWANCE		1	\$	25,000	\$	25,000
ESTIMATE / RELOWANCE		1	9	23,000	9	23,000
TOTAL Artwork					\$	25,000
gal Services						
HOLLAND AND KNIGHT	ALLOWANCE	1	\$	30,000	\$	30,000
TOTAL Legal Services					\$	30,000
curity/Locks						
Cyclotron	10 doors at \$1000./Door	1	\$	10,000	\$	10,000
Radiochemistry		30 1	\$	30,000	\$	30,000
TOTAL Security/Locks					\$	40,000
iscellaneous/Other Capital Expenses						
PERMIT EXPEDITOR	ALLOWANCE (1.5%)	1	\$	40,000	\$	40,000
Commissioning Cleaning	ALLOWANCE (1.5%)	1	\$ \$	126,696 12,000	\$ \$	126,696 12,000
Delta Testing (Estimate)/Inspections		1	\$	20,000	\$	20,000
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95	Construction Documents Preparation	12-03-13	01-20-14	35 35	1		Construction Documen	nts Preparation				
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43	RED+F Design PM meets with EH&S and Consultant	10-22-13	10-22-13	1 1	1	RED+F Design PM me	ts with EH&8 and Consultant					
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45	EH&S Surveys Space	10-30-13	11-12-13	10 10	1	EH&8 Surveys						
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114	EH&B Obtains Asbestos Bign-off (ACP 5, 20 or 21)	02-28-14	03-03-14	2 2				LIEHAS O	etains Assestos sign-off (ACP	6, 20 OF 21)			-
RELOCATION	IS AND CONSTRUCTION						 						
Relocations							 						
R1	Employee Health Move-Out		12-31-13"	0 0	1		(Employee Health Move-Out					
R11	Relocation of Office Personnel	01-15-14"	03-07-14	38 38	1		l I	Reloca	ition of Office Personnel				
R21	IT Relocation	01-15-14"	03-07-14	38 38	1			IT Relo	ooation	į			į
Construction/									1	!	!		
125	Obtain Penetration Permit from Facilities Ops	03-07-14	03-07-14	1 1	1			Option	Penetration Permit from Facili	les Ops			
126	Start	03-10-14	22 27 14	0 0	1			♦ Start					
127	Construction	03-10-14	12-19-14	204 204	\dashv			Votart	<u>'</u>			nstruntion	
127	Call for FDNY Inspection	08-18-14	11-21-14	70 70			- 4		i		Call for FDN		
	·				_							perations, Security, L/S, Etc.	
129	Facilities Operations, Security, L/S, Etc. Wilkth	11-24-14	11-25-14	2 2	-			_	!	!	uraoiities C	perations, security, L/s, Exc.	wikan
IT Tasks					4								1
133	Voice & Data Cable Rough in	05-20-14	06-16-14	20 20	4				Voic	e & Data Cable Rough in	<u> </u>		
132	Construction PM to forward From/To list to IT	09-29-14	09-30-14	2 2	1						Construction PM to forward F		
131	BDF/IDF Closels Room Ready	10-20-14		0 0							♦BDF/IDF Closets Room		
134	IT infrastructure Delivery, Build out and Implem	10-20-14	11-14-14	20 20	_							e Delivery, Build out and impl	iem
135	Voice & Data Cabling Terminations	11-17-14	11-28-14	10 10						!		ata Cabiling Terminations	!
136	IT Testing and Sign Off	11-24-14	12-05-14	10 10								ng and Sign Off	
137	Epic Technical Dress Rehearsal	12-08-14	12-19-14	10 10						!	□ Epi	o Technical Dress Rehearsal	1
Security													
139	Security Cable Rough in	11-17-14	11-21-14	5 5	1						8eourity Cab	le Rough In	
140	Install Security Devices	11-24-14	11-28-14	5 5	1	-						urity Devices	
141	Activate Security System	12-08-14	12-12-14	5 5	1						□ Aotiva	ate Security System	į
Fire Alarm Sy	stem						 			1			
143	Fire Alarm Cable Rough in	11-17-14	11-21-14	5 5	1						Fire Alarm C	able Rough In	į
144	Install Fire Alarm Devices	12-01-14	12-05-14	5 5	┨		 					ire Alarm Devices	
145	Activate Fire Alarm System	12-08-14	12-12-14	5 5	┨					į		ate Fire Alarm System	į
1.42		12-00-14	12-12-14	2 3	_		1		<u> </u>	<u> </u>	- LAGUVI	. at Alaim System	+
Radiation Det		45.50	49.45.11	40	4					İ	_		į
147	Testing and Calibration	12-08-14	12-19-14	10 10	4					İ		ting and Calibration	į
148	Activate Detector System	12-19-14		0 0	\vdash				<u> </u>		. QA0	tivate Detector System	<u>i</u>
Punchlist									i	i	i		į
162	RED+F PM to Walk Project with Project Team	12-08-14	12-08-14	1 1	1		i I		i	į	I .	PM to Walk Project with Proj	
163	Client to Walk Project with Project Team	12-09-14	12-09-14	1 1	1		 			İ		to Walk Project with Project 1	Team
164	Final cleaning/Space Acceptance and Sign Off	12-10-14	12-19-14	8 8]		i I		i I	Final cleaning/Space A	oceptance and Sign Off		
165	FDNY Inspection	12-12-14		0 0					<u>i</u>	i	♦ FDN	Y Inspection	į
MOVE IN							 				1		
							i I		İ	i I	İ		
167	RED+F PM meets with Cilent to Discuss Move Coord	12-19-14	12-19-14	1 1	1		l I			RED+F PM meets with City	ent to Discuss Move Coord		
168	Move in	12-20-14	12-19-14	10 10	1		 					Move in	
169	First Patient/User	12-20-14	12-29-14	0 0	┨							First Patient/User	
	rescribiosci		12-23-14	0 0	-		l I		I	l I	· · · · · · · · · · · · · · · · · · ·	r ii vt Paubiii UGGr	+
CLOSEOUT							 						
							I I		1	! !			
171	Collect all Final Documentation	12-30-14	03-31-15	66 66			 			<u> </u>	ollect all Final Documentation		
172	RED+F Sign Off	04-01-15	04-02-15	2 2								RED+F 8ign Of	πD