Construction Management Progress Report

Brookhaven National Laboratory

National Synchrotron
Light Source II
Ring Building

September 2009

Report # 6

October 8, 2009

Mr. Steve Sawch
Assistant Project Director
Brookhaven National Labs
Building #817
Upton, New York

October 8, 2009

TORCON

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Re: Brookhaven National Labs
National Synchrotron Light Source II Ring Building
Construction Management Progress Report # 6– September 2009

Dear Mr. Sawch:

As part of our efforts to keep the Brookhaven Science Associates fully informed regarding the progress of the National Synchrotron Light Source II Project, you will find enclosed the second Construction Management Progress Report.

This progress reporting for the project addresses the construction activities for the month of September 2009.

If you have any questions regarding the report, please contact the undersigned. We will continue to strive to maintain a high level of service to you, our client, and to set even higher goals of performance for the future.

Sincerely,

TORCON, INC.

Joseph H. Klitsch
Senior Project Manager

cc: A. Byon - BNL
S. Dierker - BNL
M. Fallier – BNL
D. Paveglio – BNL
F. Mohrmann – HDR
R. Estrin - Torcon

Brookhaven National Labs

National Synchrotron Light Source II

Report #6 – September 2009

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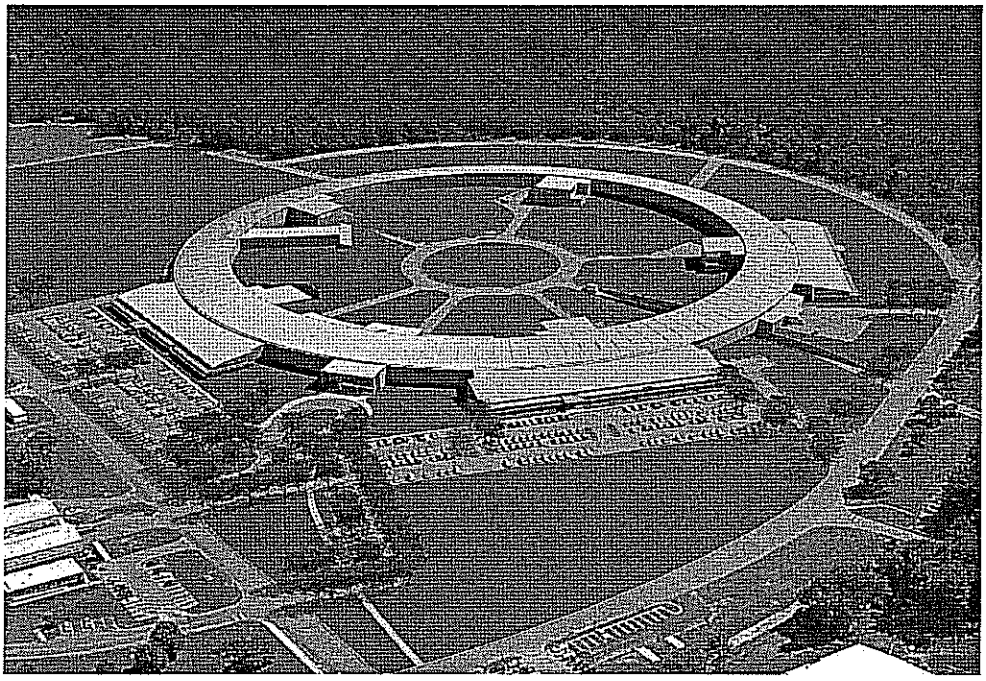

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PROJECT OVERVIEW

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EXECUTIVE OVERVIEW

- The ring building foundation walls and the ring tunnel concrete work is progressing. In September 2009 the ring tunnel slabs have progressed through Pendant No. 1. The tunnel slab wall has started. Re-coordination of site utilities relative to the re-design of the lab office buildings has progress to allow the resumption of the concrete electrical ductbank installation. Coordination of center courtyard utilities is progressing and the ring building MEP coordination has started.

PROGRESS ACHIEVED – SEPTEMBER '09

- As of the end of September 2009 the following site activities have been conducted:

  - Set steel columns for utility and vehicle tunnels.
  - Substantial progress for ring tunnel slab on grade.
  - Substantial progress of ring tunnel walls.
  - Re-coordination of east area site utilities considering the BNL design revisions.
  - Delivery of site steam system components.
  - Site grading, curbing, and paving at west area of site
  - Courtyard domestic water service.
  - Courtyard sanitary and storm water service.
  - Completed SB 1, 2 & 3 Utility Pits.

PROGRESS ANTICIPATED – OCTOBER '09

- As of the end of October '09 the following activites will be conducted:

  - Phase 1 Ring Tunnel Slab complete.
  - Ring tunnel walls; both ratchet and B Line walls will be up to the high density walls.
  - Start storm system installation begins at Brookhaven Avenue.
  - Start site curbing installation at northwest quadrant.
  - Resolve coordination issues that impact utility and ductbank installations.
  - Complete testing of installed site water, storm & sanitary piping
  - Continue with footing installation into Phase 6.
  - Install sanitary, water and fire line entrances into building footprint
  - Complete SB-4 & 5 utility pits.

PROJECT OVERVIEW

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OTHER SITE CONDITIONS

- Torcon, Inc. has been requested to provide a quotation to perform the excavation of the lab office buildings (LOBs) to the sub grades necessary for foundations. A proposal has been under review and further revised relative to BNL grading documentation. Revised submittal to be issued by Torcon, Inc.

PURCHASING

- Torcon is finalizing the painting contracts. The carpentry scope has been awarded and supplier of the pre-fabricated compressor building. The revised scope of the experimental floor has been quoted to BNL for review and approval.

PROJECT OVERVIEW

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ENGINEERING OVERVIEW

- RFI & Engineering Submittals

A total of (303) RFIs have been submitted to date and attached within this report is a listing of the 31 that currently hold an open status. All priority concerns with the open RFIs and submittal are being presented and addressed during the weekly engineering review meetings. Along with that, all coordination conflicts are being proactively reviewed to speed the RFI process.

As of September 2009 the following items have been submitted and are under review:

- Emergency Generator re-submittal
- Air Door Curtains
- Joist and Deck Shop Drawings
- Area "F" S.O.G. and Wall Rebar Shop Drawings
- Air Handling Units
- Sprinkler System Product Data
- Aluminum Composite Materials

Anticipated submissions for the next month include:

- Underground Plumbing Shop Drawings Phases 2-7
- Pre-formed Metal Siding Shop Drawings
- Fire Alarm System
- Air Handlers
- Cooling Tower Package
- Curtain Wall Submittals

Torcon distributes a four week look-a-head schedule of submittal documents, on a bi-weekly basis, to assist HDR in providing adequate manpower for the review of documents. This is to aide in the processing and return of submittals in a timely manner. Torcon and BNL engineers are working together to prioritize all RFIs and submittal packages on a weekly basis. This procedure has produced positive turnarounds and should continue to do so.

PROJECT OVERVIEW

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- LEED Status

Torcon is continuing to coordinate LEED submittal requirements with their subcontractors as they come on board. A registry of LEED submittal requirements are distributed at all QA/QC Kickoff Meetings. Several of these submittals have already been received; Torcon's QA/QC Manager is continually working with the Engineering department to track these submittals.

A topographic analysis of the recycled material pile at the Southeast corner of the site was performed to determine the total volume of demolition waste diverted from disposal. A drawing indicating material placement is being updated and will be submitted as a record of material re-use.

Torcon has received several Construction Waste Reports from its Waste Management subcontractor, Maggio Sanitation. Each report received to date indicates that Torcon is well above the diverted waste percentage required to meet LEED Credits MR2.1 & MR2.2. Torcon outlines its Waster Management strategy in their Construction Waste Management Plan. This plan was submitted internally for review and is currently being revised and will be resubmitted upon completion.

Torcon continues to recycle office paper and cardboard waste. Torcon is working with BNL to establish a recycling program for bottles and cans.

- QA/QC Status

Torcon met with BNL and MT Group representatives in early September to discuss deficient compressive strength tests from placements on 7/23/09 and 7/27/09. Torcon chose to core drill and test samples from deficient placement locations and analysis of these tests concluded that the concrete placed on these days did reach design strength; thus, closing the issue.

Also in this meeting, Torcon expressed their concern of possible inaccuracies in MT Group's compressive strength tests due to the casting, storage and transportation of concrete specimens. Torcon has snce provided three specimen curing boxes to be used by MT Group's field inspector. Discussions of action taken by BNL and Torcon to mitgate further deficiencis is ongoing.

Torcon has developed means to analyze and trend data collected from MT Group's compressive strength tests. Through this analysis potential deficiences in concrete strength can identified early on allowing for adjustments made both in the field and at the batch plant.

PROJECT OVERVIEW

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Torcon visited the facility of Northest Steel Fabricators on 9/17/09 to observe the fabrication of the approved stell inserts for the Ring Tunnel Walls and other miscellaneous steel items.

On September 30, 2009 Torcon accompanied BNL to visit Helmark Steel in Wilmington, DE to perform a steel progress inspection. The status of fabricated steel and ongoing QA compliance was reviewed during this visit which culminated in a tour of the production fcailities and storage yard.

Torcon has continued to manage BNL's required Concrete Pre-Pour Inspection forms available to BNL inspectors every day prior to each pour.

Civil and plumbing subcontractors have begun pressue testing piping. Torcon has reviewed testing procedures with these contractors and coordinates BNL inspections on a daily basis.

Delivery inspections are ongoing, matching material delivered to the site for installation against the approved submittal and specifications.

At this time, three members of Torcon's superintendent staff have attended BNL Suspect/Counterfeit Items Awareness Training (QA-SCI-3A); records of this training have been transmitted to Joe Zipper of BNL.

Torcon held the first bi-weekly QA Review Meeting with core BNL management on Tuesday, 9/22/09. The purpose of this meeting is to facilitate communication between BNL and Torcon by creating a regular forum for open discussion of construction and engineering quality related issues.

A QA/QC Kickoff Meeting was held on 9/23/09 with Restore Technologies, Torcon's waterproofing subcontractor.

As-Built drawings are updated by subcontractors on-site on a monthly basis. Torcon is coordinating the review as these as-builts with BNL inspectors upon request.

- Compliance Notices

Torcon is utilitizing its "Notice to Comply" system to issue field notification to subcontractors' deficiencies and address the distribution of BNL's Compliance Notices. A log of each listing of notices is included in this report.

TORCON

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RFI Log (Open)

Ordered by RFI #

RFI #	Subject	Answer Company	Date Created	Date Req'd	Answ'd	Importance	Comments
CP2-0187	Duct Serving RF Test Area	Brookhaven National Laboratory	7/6/2009	7/13/2009		Urgent	
CP2-0212	Dielectric Ground Breaks	Brookhaven National Laboratory	7/27/2009	8/3/2009		Normal	
CP2-0222	Fire Water Rodding	Brookhaven National Laboratory	8/3/2009	8/7/2009		Normal	
CP2-0225	SS-12 Installation Verification	Brookhaven National Laboratory	8/3/2009	8/10/2009		High	
CP2-0233	Column Bracket Clarification	Brookhaven National Laboratory	8/3/2009	8/10/2009		High	
CP2-0240	Size of channel at opening per Arch drawings	Brookhaven National Laboratory	8/6/2009	8/13/2009		Normal	
CP2-0242	Steam Vault # 47 Utility Issue	Brookhaven National Laboratory	8/11/2009	8/18/2009		Normal	
CP2-0250	Storm line and Steam/Condensate conflicts	Brookhaven National Laboratory	8/17/2009	8/19/2009		High	
CP2-0252	SB3 GDP-3 Location Confirmation	Brookhaven National Laboratory	8/21/2009	8/28/2009	9/4/2009	Normal	
CP2-0256	Electrical Duct Bank & Utility Conflicts	Brookhaven National Laboratory	8/26/2009	9/2/2009		Normal	
CP2-0257	Booster Building Duct Bank & Utility Conflicts	Brookhaven National Laboratory	8/26/2009	9/2/2009		Normal	
CP2-0262	ECN-014 Electrical Duct Bank Coordination Issues	Brookhaven National Laboratory	9/1/2009	9/8/2009		Normal	
CP2-0265	Depressed slab and subgrade clarification	Brookhaven National Laboratory	9/2/2009	9/9/2009		Normal	
CP2-0267	Underground Clean out Locations	Brookhaven National Laboratory	9/3/2009	9/8/2009	10/2/2009	High	
CP2-0268	Circuitry Clarifications	Brookhaven National Laboratory	9/3/2009	9/8/2009		Normal	
CP2-0271	Relay Panel RPSB4A1 Location	Brookhaven National Laboratory	9/3/2009	9/8/2009		Normal	
CP2-0273	Relay Panel RPSB3A1 Location	Brookhaven National Laboratory	9/3/2009	9/8/2009		Normal	

RFI #	Subject	Answer Company	Date Created	Date Req'd	Answ'd	Importance	Comments
CP2-0278	Possible Duplication of Luminaries at Column Line #102	Brookhaven National Laboratory	9/9/2009	9/16/2009		Normal	
CP2-0283	Ring Tunnel 2" isolation joint location		9/17/2009	9/21/2009		High	
CP2-0285	Wall Outlet Clarification	Brookhaven National Laboratory	9/18/2009	9/25/2009		Normal	
CP2-0286	Underground Steam Pipe Testing	Brookhaven National Laboratory	9/18/2009	9/25/2009		Normal	
CP2-0290	SB-1 to SUS-1 Ductbank	Brookhaven National Laboratory	9/23/2009	9/30/2009		Normal	
CP2-0292	Galvaninzing HSS tube steel question		9/29/2009	10/6/2009		Normal	
CP2-0293	Grading, curbing and drainage at Lobby driveway		9/29/2009	10/2/2009		High	
CP2-0295	Thickness of concrete S.O.G. clarification		9/29/2009	10/6/2009		Normal	
CP2-0296	Plumbing Fixture S-1	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0297	Sump Pump Discharge Valves	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0298	Tele/Data Devices in Compressor & Cooling Tower Buildings	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0299	Electrical Panels Behind Doors	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0300	Storm Line and Slab Clearance Issue	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0301	15kV Duct Bank Routing	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0302	Ductbank and footing Conflict	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	
CP2-0303	Backflow Preventors	Brookhaven National Laboratory	9/28/2009	10/5/2009		Normal	

Total Number Of RFIs This Report: 33

Project # 09003
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Notice To Comply Summary Log

Grouped By Subcontractor

Number	Date	Subject	Notice to Comply Type	Due By	Done On	FLW UP
Macedos Construction, LCC						
006	9/28/2009	Insufficient Rebar Cover - Vehicle Tunnel	Incorrect Installation	9/21/2009	9/28/2009	No
007	10/8/2009	Dowels at Ring Tunnel Slab	Incorrect Installation	10/13/2009	OPEN	No
Maggio Sanitation Services, Inc.						
003	7/8/2009	Waste Removal & Recyling Reports	Submittal Defficiency	7/15/2009	8/26/2009	No
Vollers Excavating & Construction, Inc.						
001	5/14/2009	Disposition of Salvagable Materials	Hot List	5/14/2009	5/14/2009	No
002	5/18/2009	Storm Water & Erosion Controls	Erosion Control	5/28/2009	5/28/2009	No
004	8/13/2009	Application of Un-Approved Material	Submittal Defficiency	8/20/2009	8/20/2009	No
005	8/27/2009	Backfill @ Col. Ftgs per RFI CP01	Deficiency Item	8/28/2009	8/28/2009	No

Number of Notices to Comply: 7

10/8/2009 BNL Compliance Notice Log

BNLCompliance Notice No.	Description	Date Issued	Action date	Comments
1	Disposition of Salvagable Materials	5/14/09	5/15/09	
2	Storm Water Erosion Controls	5/18/09	5/26/09	Response B. Peters 5/26/09
3	Voided by BNL	5/20/09	5/20/09	Notice never issued.
4	Thread coating- Vollers	8/17/09	8/31/09	Not specified, submittal
				pending, 8/18/09
5	Backfill @ Foam/ Column footings.	8/27/09	9/22/09	Retain backfill
6	Insufficient Rebar Cover; Vehicle Tunnel	9/21/09	9/29/09	Response B. Peters 9/29/09
7	Ring Tunnel Dowels	10/6/09		Under review,response
				pending.

PROJECT OVERVIEW

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FINANCIAL OVERVIEW

- Cost Reporting and Change Order Control
  - BNL has issued to date 26 Engineering Change Notices. ECN 21 and 26 have not yet been issued.
  - Torcon has issued to date 36 Out of Scope Control Notices.

- Reports of Torcon's OS#'s dated 10/8/09 are included in the report. These 17 reports indicate the following: a report of all issued OS#'s, a report of not-submitted (NS) OS#'s, and a report of the 16 submitted not approved (SNA) OS#'s. The value of the submitted OS proposals, pending BNL approval, has a total value of $6,460,232.

- Efforts in the month of September to attain final BNL approval of these submitted proposals has progressed; with several of the larger proposal reviews completed.

10/7/2009

BNL Engineering Change Notice Log

BNL Eng. Change Notice No.	Description	Date Issued	Torcon OS#	Comments
1	Revisions to Storage Tunnel Unistrut	5/14/09	OS-0006	
2	Feeders @ Main Dipole Power Suppliers	5/15/09	OS-0007	
3	Concrete Covered Steel Braces	5/15/09	OS-0008	
4	Labyrinth Section Clarification	5/15/09	OS-0009	
5	Alignment Port Configuration	5/15/09	OS-0010	
6	Cooling Tower Revision	6/8/09	OS-0003	
6-1	Cooling Tower Revision; Delet Air Compressor	9/3/09	OS-0003	Reduction of original ECN # 6 scope, Botto Mech.
7	Revised Compressor Bldg.; Electrical	8/3/09	OS-0018	
8	ByPass Corridor @ Utility Tunnel	6/30/09	OS-0013	
9	Revisions/Clarifications of Retaining Walls	6/12/09	OS-0012	
10	Pier & Beam Encasement	6/30/09	OS-0014	
11	Bearing Details of Encased Covers	6/30/09	OS-0014	
12	Exterior Column Covers	6/30/09	OS-0015	
13	Epoxy Floor @ Experimental Area	7/1/09	OS-0016	
14	Site Utility Revisions	7/28/09	OS-0017	
15	Experimental Floor & Access Corridor Revisions	8/12/09	OS-0022	Also includes ECN-24
16	ByPass Corridor Slab Revisions	8/17/09	OS-0023	
17	Domestic Water Line Realignment	7/9/09	VOID	BNL email dated 7/29/09
18	Liq. Nitrogen Detail Revisions	8/17/09	OS-0024	
19	Storm System Revisions	10/2/09	OS-0036	# is place holder per BNL; 9/9/09
20	Sitework Revisions	9/1/09	OS-0029	Paving, Grading & Site Lighting
21	**Not Issued**	9/9/09	**HOLD**	# is place holder per BNL ; 9/9/09
22	Ratchet Wall Opening Changes	8/17/09	OS-0025	
23	By-Pass Corridor Roof Framing	8/17/09	OS-0026	RFI Response
24	Structural Section # 10; Dwg. S-306	8/17/09	OS-0022	reinstated section #10 deleted in ECN-15
25	Tunnel Reaining Wall Revisions	8/18/09	OS-0027	
26	**Not Issued**	10/2/09	**HOLD**	# is place holder per BNL; 10/7/09
27	RevisedParking Area @ Lobby & LOB1	10/2/09	OS-0035	
28	Electrical Grounding Breaks	9/25/09	OS-0033	

Torcon

Project # 09003
BNL - NSLS II
Brookhaven National Labs Building TR930
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OS Change Control Log
ALL

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
OS-0001	Post Bid Addendum # 1	03/23/2009	05/05/2009		OD	SNA			3,373,800		3,373,800
OS-0002	Plate Compaction Test	04/22/2009	08/04/2009		OD	SNA			42,028		42,028
OS-0003	Cooling Tower Bldg. Addition; ECN-6	05/13/2009	10/08/2009		OD	SNA			342,334		342,334
OS-0004	Unknown Site Utilities	05/14/2009	07/21/2009		OD	SNA			13,282		13,282
OS-0004.1	Unknow Subsurface Materials	07/21/2009	09/15/2009		FC	SNA			13,451		13,451
OS-0005	Water Line Exploratory Test Pit	06/08/2009	07/21/2009		OD	SNA			24,750		24,750
OS-0006	Storage Tunnel Unistrut; ECN-01	05/18/2009			OD	VOID				0	0
OS-0007	Feeders; Main Dipole Power; ECN-02	05/15/2009	07/21/2009		OD	SNA			166,752		166,752
OS-0008	Concrete Covered Steel Braces; ECN-03	05/18/2009	08/25/2009		OD	VOID		0			0
OS-0009	Tunnel Ductwork / BNL Piping; ECN-04	06/09/2009			OD	NS		0			0
OS-0010	Alignment Port Penetrations; ECN-05	06/09/2009	08/25/2009		OD	VOID		0			0
OS-0011	Groundbreaking Ceremony Field Work	06/09/2009	08/04/2009		OD	SNA			1,880		1,880
OS-0012	Revisions to Retaining Walls; ECN-09	06/15/2009	09/15/2009		OD	SNA			59,567		59,567
OS-0013	Bypass Corridor @ Utility Tunnel; ECN-08	07/01/2009			OD	NS		1,000			1,000
OS-0014	Pier & Beam Concrete Encasement;ECN-10 & 11	07/01/2009	07/20/2009		OD	SNA			47,826		47,826
OS-0015	Exterior Column Covers; Detail & Location; ECN-12	08/28/2009			OD	NS		24,236			24,236
OS-0016	Experimental Hall Epoxy Flooring; ECN-13	07/06/2009	09/11/2009		OD	SNA			745,817		745,817
OS-0017	Site Utilitiy Revisions; ECN-14	07/28/2009			OD	NS		99,699			99,699
OS-0018	Revised Compressor Rm., Electrical; ECN# 7	08/03/2009			OD	NS		39,770			39,770
OS-0019	Standing Seam Roof Material Revision	08/03/2009	08/04/2009		FD	SNA			222,092		222,092

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OS Change Control Log
ALL

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
OS-0020	Revise Site BNL Supplied Temporary Electrical Service.	08/03/2009	08/20/2009		OD	SNA			62,578		62,578
OS-0021	Security Fence Installation	08/04/2009	09/17/2009		OD	VOID				0	0
OS-0022	Experimental Floor & Access Corridor Revisions; ECN-15 & 24	08/20/2009			OD	NS		67,201			67,201
OS-0023	Revise By-Pass Corridor Slab; ECN-16	08/20/2009			OD	NS		55,082			55,082
OS-0024	Liquid Nitrogen Detail Revisions	08/20/2009			OD	NS		5,508			5,508
OS-0025	Enlarge Ratchet Wall Opening Revisions; ECN22	08/20/2009			OD	NS		(8,000)			(8,000)
OS-0026	By-Pass Corridor Roof Framing; ECN23	08/20/2009			OD	NS		40,211			40,211
OS-0027	Vehicle Access Tunnel Retaining Wall; ECN-25	08/20/2009			OD	NS		16,524			16,524
OS-0028	Offsetting & Condensing of Site Electrical Ductbanks	08/20/2009	08/21/2009		FC	SNA			192,749		192,749
OS-0029	Sitework Revisions/ LOB's; ECN#20	09/08/2009			OD	NS		(30,000)			(30,000)
OS-0030	Steel Revisions per RFI Responses	09/11/2009	09/11/2009		OD	SNA			12,520		12,520
OS-0031	ARRA Funding Administration	09/15/2009			OD	NS		10,000			10,000
OS-0032	Ring Tunnel Embeded angle Kickplate	09/25/2009			OD	NS		27,542			27,542
OS-0033	Elec. Breaks in Grounding System; ECN-28	09/25/2009			OD	NS		4,753			4,753
OS-0034	Sitework @ LOB's	09/24/2009	10/08/2009		OD	SNA			1,138,806		1,138,806
OS-0035	Lobby & LOB1 Parking Lot Revisions; ECN-27	10/07/2009			OD	NS		11,709			11,709
OS-0036	Storm Water Line Revisions; ECN-19	10/07/2009			OD	NS		16,871			16,871
	OS Total							382,106	6,460,232	0	6,842,338
Report Totals:								**382,106**	**6,460,232**	**0**	**6,842,338**

Counts

TORCON

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OS Change Control Log
ALL

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
Total of BNA Changes on Report:						0					
Total of BEA Changes on Report:						0					
Total of NS (Incl. BNA & BEA) Changes on Report:						17		382,106			382,106
Total of VOID Changes on Report:						4		0		0	0
Total of SNA Changes on Report:						16			6,460,232		6,460,232
Total of RNR Changes on Report:						0					
Total of APP Changes on Report:						0					
Total Changes on Report:						**37**		**382,106**	**6,460,232**	**0**	**6,842,338**

STATUS LEGEND: APP=Approved; BEA=Budget Estimate Approved; BNA=Budget Not Approved; NS=Not Submitted; RNR=Revise and Resubmit; SNA=Submitted Not Approved; VOID=Void;

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
Change Reason Summary								Counts			
Total of FC Changes on Report:								2		206,200	206,200
Total of FD Changes on Report:								1		222,092	222,092
Total of OD Changes on Report:								34	382,106	6,031,940	0 6,414,046
Total Changes on Report								**37**	**382,106**	**6,460,232**	**0 6,842,338**

REASON LEGEND: CND=Construction Contingency; CON=Contingency; DEC=Design Contingency; GC=General Conditions; DC=Direct Costs; DR=Drawing Revisions; FD=Field Directive; PUR=Purchasing; VE=Value Engineering; IR=Inspection Results; DCA=DCA Directive; DIS=Disputed; EO=Errors & Omissions; CCD=Correction to Contract Documents; TR=Tenant Requirements; CC=Change Condition; COD=Consultant Directive; D=Delays; FC=Field Condition; OD=Owner Directive; ALL=Allowance; SU=Suspended;

END OF REPORT

Company: 01
Project: 09003
From Subjob:
To Subjob:

Class:
Type: OS
From CO#:
To CO#:

Status:
Reason:
Report Code: TRCPMCOLOGR

TORCON

Project # 09003
BNL - NSLS II
Brookhaven National Labs Building TR930
Upton NY 11973-5000

Tel: 631-344-3210
Fax: 631-344-3218

OS Change Control Log
SNA

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
OS-0001	Post Bid Addendum # 1	03/23/2009	05/05/2009		OD	SNA			3,373,800		3,373,800
OS-0002	Plate Compaction Test	04/22/2009	08/04/2009		OD	SNA			42,028		42,028
OS-0003	Cooling Tower Bldg. Addition; ECN-6	05/13/2009	10/08/2009		OD	SNA			342,334		342,334
OS-0004	Unknown Site Utilities	05/14/2009	07/21/2009		OD	SNA			13,282		13,282
OS-0004.1	Unknow Subsurface Materials	07/21/2009	09/15/2009		FC	SNA			13,451		13,451
OS-0005	Water Line Exploratory Test Pit	06/08/2009	07/21/2009		OD	SNA			24,750		24,750
OS-0007	Feeders; Main Dipole Power; ECN-02	05/15/2009	07/21/2009		OD	SNA			166,752		166,752
OS-0011	Groundbreaking Ceremony Field Work	06/09/2009	08/04/2009		OD	SNA			1,880		1,880
OS-0012	Revisions to Retaining Walls; ECN-09	06/15/2009	09/15/2009		OD	SNA			59,567		59,567
OS-0014	Pier & Beam Concrete Encasement;ECN-10 & 11	07/01/2009	07/20/2009		OD	SNA			47,826		47,826
OS-0016	Experimental Hall Epoxy Flooring; ECN-13	07/06/2009	09/11/2009		OD	SNA			745,817		745,817
OS-0019	Standing Seam Roof Material Revision	08/03/2009	08/04/2009		FD	SNA			222,092		222,092
OS-0020	Revise Site BNL Supplied Temporary Electrical Service.	08/03/2009	08/20/2009		OD	SNA			62,578		62,578
OS-0028	Offsetting & Condensing of Site Electrical Ductbanks	08/20/2009	08/21/2009		FC	SNA			192,749		192,749
OS-0030	Steel Revisions per RFI Responses	09/11/2009	09/11/2009		OD	SNA			12,520		12,520
OS-0034	Sitework @ LOB's	09/24/2009	10/08/2009		OD	SNA			1,138,806		1,138,806
	OS Total								6,460,232		6,460,232
Report Totals:								**0**	**6,460,232**	**0**	**6,460,232**

Counts	
Total of BNA Changes on Report:	0
Total of BEA Changes on Report:	0

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OS Change Control Log
SNA

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
Total of NS (Incl. BNA & BEA) Changes on Report:						0					
Total of VOID Changes on Report:						0					
Total of SNA Changes on Report:						16			6,460,232		6,460,232
Total of RNR Changes on Report:						0					
Total of APP Changes on Report:						0					
Total Changes on Report:						**16**			**6,460,232**		**6,460,232**

STATUS LEGEND: APP=Approved; BEA=Budget Estimate Approved; BNA=Budget Not Approved; NS=Not Submitted; RNR=Revise and Resubmit; SNA=Submitted Not Approved; VOID=Void;

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OS Change Control Log
SNA

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
Change Reason Summary								Counts			
Total of FC Changes on Report:								2		206,200	206,200
Total of FD Changes on Report:								1		222,092	222,092
Total of OD Changes on Report:								13		6,031,940	6,031,940
Total Changes on Report								**16**		**6,460,232**	**6,460,232**

REASON LEGEND: CND=Construction Contingency; CON=Contingency; DEC=Design Contingency; GC=General Conditions; DC=Direct Costs; DR=Drawing Revisions; FD=Field Directive; PUR=Purchasing; VE=Value Engineering; IR=Inspection Results; DCA=DCA Directive; DIS=Disputed; EO=Errors & Omissions; CCD=Correction to Contract Documents; TR=Tenant Requirements; CC=Change Condition; COD=Consultant Directive; D=Delays; FC=Field Condition; OD=Owner Directive; ALL=Allowance; SU=Suspended;

END OF REPORT

Company: 01
Project: 09003
From Subjob:
To Subjob:

Class:
Type: OS
From CO#:
To CO#:

Status: SNA
Reason:

Report Code: TRCPMCOLOGR

TORCON

Project # 09003
BNL - NSLS II
Brookhaven National Labs Building TR930
Upton NY 11973-5000

Tel: 631-344-3210
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OS Change Control Log
NS

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
OS-0009	Tunnel Ductwork / BNL Piping; ECN-04	06/09/2009			OD	NS		0			0
OS-0013	Bypass Corridor @ Utility Tunnel; ECN-08	07/01/2009			OD	NS		1,000			1,000
OS-0015	Exterior Column Covers; Detail & Location; ECN-12	08/28/2009			OD	NS		24,236			24,236
OS-0017	Site Utilitiy Revisions; ECN-14	07/28/2009			OD	NS		99,699			99,699
OS-0018	Revised Compressor Rm., Electrical; ECN# 7	08/03/2009			OD	NS		39,770			39,770
OS-0022	Experimental Floor & Access Corridor Revisions; ECN-15 & 24	08/20/2009			OD	NS		67,201			67,201
OS-0023	Revise By-Pass Corridor Slab; ECN-16	08/20/2009			OD	NS		55,082			55,082
OS-0024	Liquid Nitrogen Detail Revisions	08/20/2009			OD	NS		5,508			5,508
OS-0025	Enlarge Ratchet Wall Opening Revisions; ECN22	08/20/2009			OD	NS		(8,000)			(8,000)
OS-0026	By-Pass Corridor Roof Framing; ECN23	08/20/2009			OD	NS		40,211			40,211
OS-0027	Vehicle Access Tunnel Retaining Wall; ECN-25	08/20/2009			OD	NS		16,524			16,524
OS-0029	Sitework Revisions/ LOB's; ECN#20	09/08/2009			OD	NS		(30,000)			(30,000)
OS-0031	ARRA Funding Administration	09/15/2009			OD	NS		10,000			10,000
OS-0032	Ring Tunnel Embeded angle Kickplate	09/25/2009			OD	NS		27,542			27,542
OS-0033	Elec. Breaks in Grounding System; ECN-28	09/25/2009			OD	NS		4,753			4,753
OS-0035	Lobby & LOB1 Parking Lot Revisions; ECN-27	10/07/2009			OD	NS		11,709			11,709
OS-0036	Storm Water Line Revisions; ECN-19	10/07/2009			OD	NS		16,871			16,871
	OS Total							382,106			382,106
Report Totals:								**382,106**	**0**	**0**	**382,106**

Counts

Torcon

Project # 09003
BNL - NSLS II
Brookhaven National Labs Building TR930
Upton NY 11973-5000

Tel: 631-344-3210
Fax: 631-344-3218

OS Change Control Log
NS

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget
Total of BNA Changes on Report:						0					
Total of BEA Changes on Report:						0					
Total of NS (incl. BNA & BEA) Changes on Report:						17		382,106			382,106
Total of VOID Changes on Report:						0					
Total of SNA Changes on Report:						0					
Total of RNR Changes on Report:						0					
Total of APP Changes on Report:						0					
Total Changes on Report:						**17**		**382,106**			**382,106**

STATUS LEGEND: APP=Approved; BEA=Budget Estimate Approved; BNA=Budget Not Approved; NS=Not Submitted; RNR=Revise and Resubmit; SNA=Submitted Not Approved; VOID=Void;

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Project # 09003
BNL - NSLS II
Brookhaven National Labs Building TR930
Upton NY 11973-5000

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OS Change Control Log
NS

Grouped by Type
Sorted by PCI Number

Number	Description	Initiated	Submit'd	Apprv'd	Reason	Status	PCCO No	Cost			Billing
								Estimate	Prop'd	Apprv'd	Budget

Change Reason Summary

	Counts		
Total of OD Changes on Report:	17	382,106	382,106
Total Changes on Report	**17**	**382,106**	**382,106**

REASON LEGEND: CND=Construction Contingency; CON=Contingency; DEC=Design Contingency; GC=General Conditions; DC=Direct Costs; DR=Drawing Revisions; FD=Field Directive; PUR=Purchasing; VE=Value Engineering; IR=Inspection Results; DCA=DCA Directive; DIS=Disputed; EO=Errors & Omissions; CCD=Correction to Contract Documents; TR=Tenant Requirements; CC=Change Condition; COD=Consultant Directive; D=Delays; FC=Field Condition; OD=Owner Directive; ALL=Allowance; SU=Suspended;

END OF REPORT

Company: 01
Project: 09003
From Subjob:
To Subjob:

Class:
Type: OS
From CO#:
To CO#:

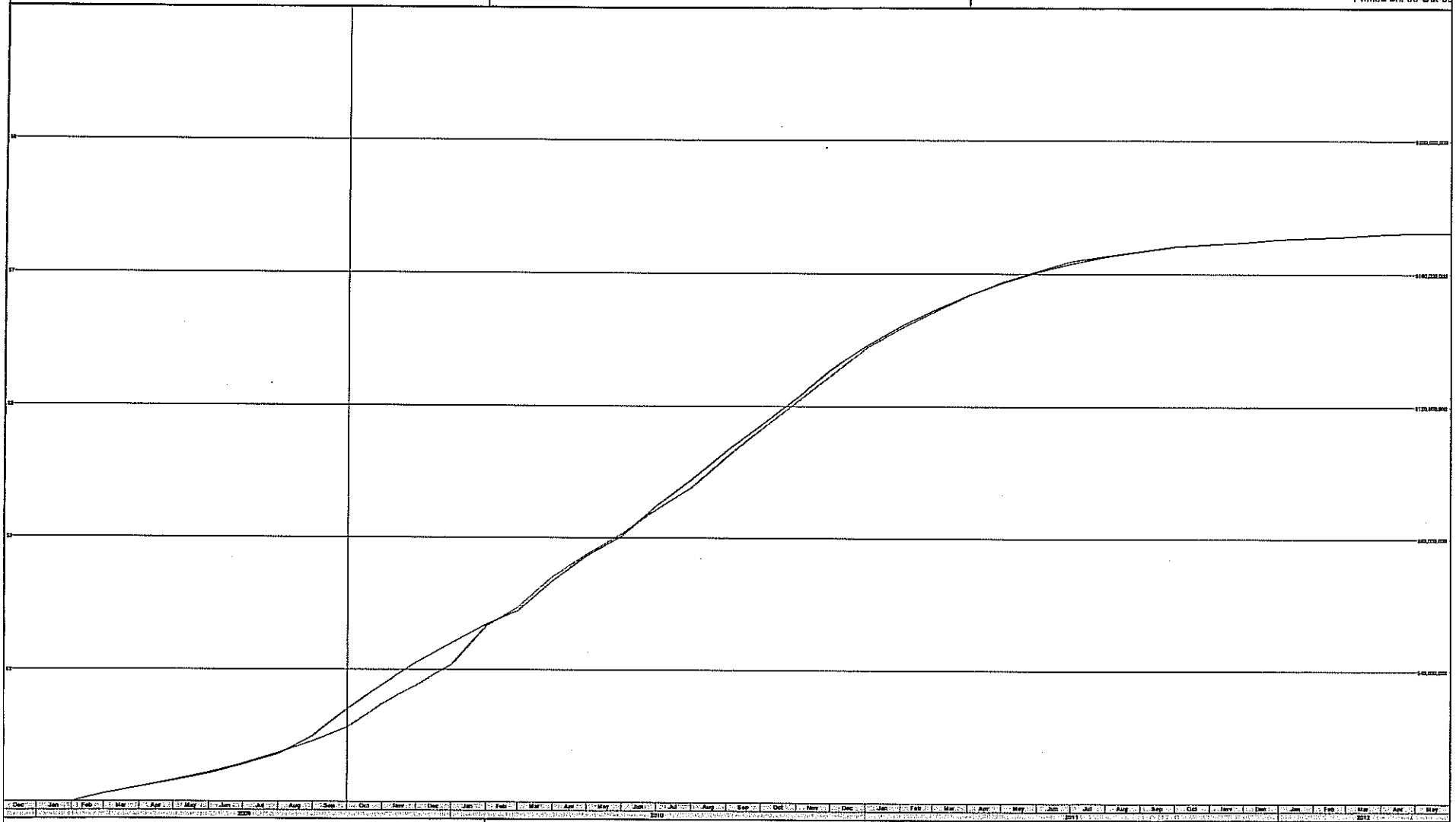
Status: NS
Reason:
Report Code: TRCPMCOLOGR

Torcon NSLS-II

NSLS II FULL SCHEDULE CASHFLOW

As of Data Date: 01-Oct-09

Printed on: 08-Oct-09



Cost

Estimate At Completion Actual Total BL Project Total

BROOKHAVEN NATIONAL LABORATORY

TORCON

PROJECT OVERVIEW

TORCON

SCHEDULE OVERVIEW

- Additional revisions to the baseline cost loaded schedule were submitted to BNL in September. These revisions have been approved.

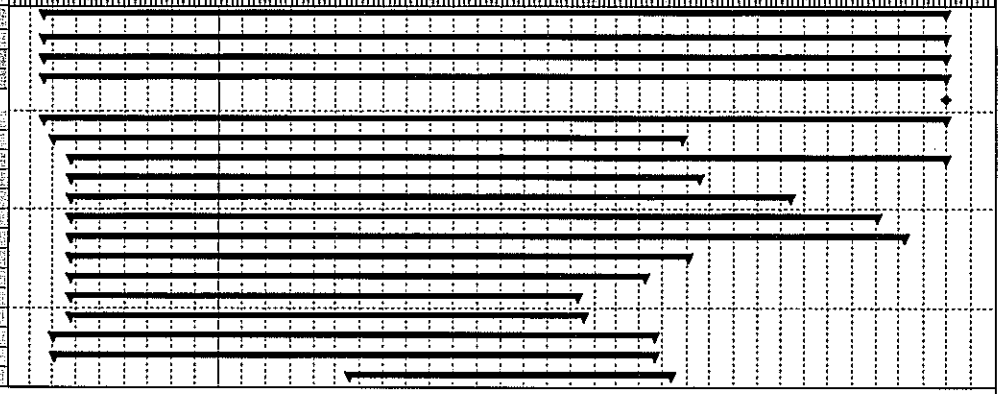
- BNL and Torcon have reviewed the procedures for the monthly requisition. The cost loaded schedule had been successfully utilized for the monthly progress of work evaluation.

- Required schedule update documents will be forwarded to BNL scheduling personnel electronically at the close of the month and a Schedule Review Meeting will be schedule for the first week of the following month for review of the critical path and variances.

- Specific schedule issues are as follows:

  - Site electrical utility installation is continuing. However, some coordination issues continue to impact progress.
  - Due to weather delay incurred during May, June and July, the concrete operation was running a few weeks behind baseline. Most of this delay has been recouped and we anticipate being ahead of schedule by the end of October.
  - Ring tunnel slabs pour have progressed and a cycle is developing.
  - Column footings are ahead of schedule.
  - Mass cuts/fills are 95% complete.
  - Site utilities on west and south sides of jobsite are near complete. Final tie-ins of storm system remain.
  - Testing of the western portion of the site domestic water system has commenced.
  - Foundation water proofing activities are continuing and are following the concrete operation. Work is currently on the service building utility pits and foundation walls.
  - Permanent site roads are being established on south and west sides of jobsite. Paving operations in these areas will follow this fall.
  - Overall construction activities are on schedule.
  - Engineering submittals are delayed; but presently no schedule impact.
  - Steam piping, delayed to material substitution issues, has been delivered and installation will begin in Oct '09.

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish
T1	Torcon NSLS-II	816d	656d	16-Feb-09 A	30-Apr-12
T1.05	Conventional Facilities	816d	656d	16-Feb-09 A	30-Apr-12
T1.05.03	Conventional Facilities Construction	816d	656d	16-Feb-09 A	30-Apr-12
T1.05.03.02	Ring Building (Contract)	816d	656d	16-Feb-09 A	30-Apr-12
T1-11035	Ring Building Contractural Construction Completion	0d	0d		30-Apr-12*
T1.05.03.02.01	General Requirements	816d	655d	16-Feb-09 A	30-Apr-12
T1.05.03.02.02	Site Work	570d	418d	03-Mar-09 A	25-May-11
T1.05.03.02.03	Pentant 1 and Service Building	791d	655d	25-Mar-09 A	30-Apr-12
T1.05.03.02.04	Pentant 2 and Service Building	552d	434d	25-Mar-09 A	17-Jun-11
T1.05.03.02.05	Pentant 3 and Service Building	634d	516d	25-Mar-09 A	13-Oct-11
T1.05.03.02.06	Pentant 4 and Service Building	711d	593d	25-Mar-09 A	02-Feb-12
T1.05.03.02.07	Pentant 5 and Service Building	706d	616d	25-Mar-09 A	08-Mar-12
T1.05.03.02.08	Injection Building	533d	424d	25-Mar-09 A	03-Jun-11
T1.05.03.02.09	RF and Compressor Building	520d	364d	25-Mar-09 A	07-Apr-11
T1.05.03.02.10	Lobby	432d	323d	25-Mar-09 A	10-Jan-11
T1.05.03.02.11	Cooling Tower and Process Water	464d	328d	25-Mar-09 A	18-Jan-11
T1.05.03.02.12	Underground Mechanical Utilities	545d	393d	03-Mar-09 A	20-Apr-11
T1.05.03.02.13	Site Electrical Utilities	544d	394d	04-Mar-09 A	20-Apr-11
T1.05.03.02.14	LN2 and GN2 Systems	290d	290d	19-Mar-10	11-May-11



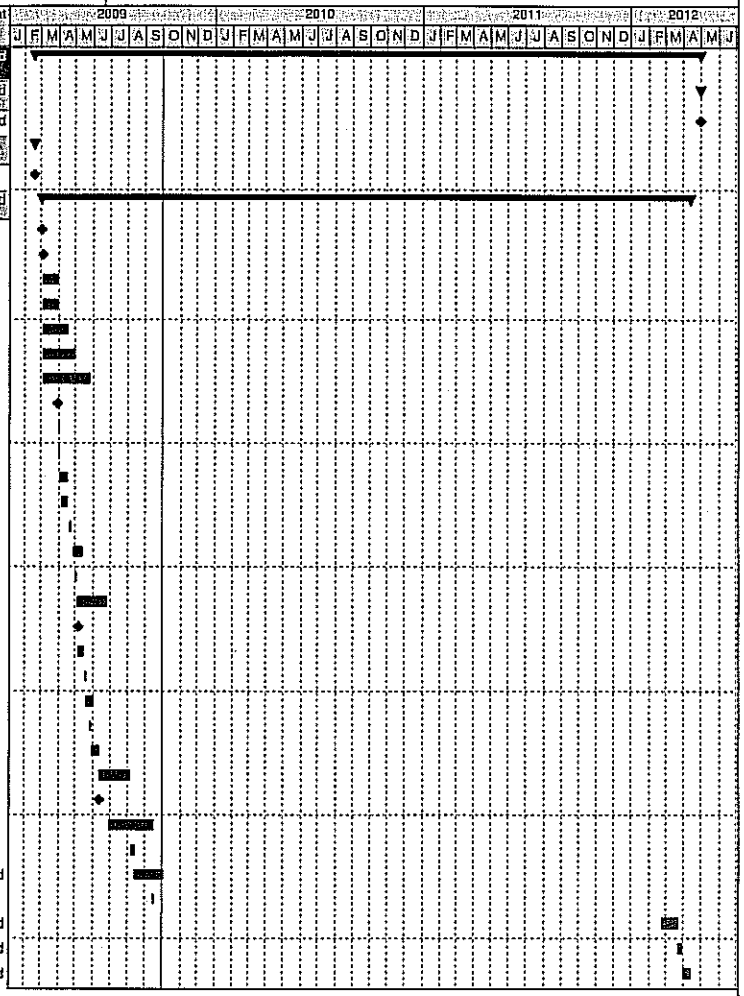
Actual Work
Remaining Work
Milestone
Summary

BROOKHAVEN LABORATORY: NSLS II

T1 - PROJECT OVERVIEW SCHEDULE

TORCON

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
NSLS II PROJECT		816d	655d	18-Feb-09 A	30-Apr-12	0d
MILESTONES		0d	0d	30-Apr-12	30-Apr-12	0d
T1-11035	Ring Building Contractural Construction Completion	0d	0d		30-Apr-12*	0d
GENERAL		10d	0d	18-Feb-09 A	18-Feb-09 A	
T1-00130	CONTRACT EXECUTED WITH BNL	0d	0d	18-Feb-09 A		
PROCUREMENT & ENGINEERING		795d	643d	03-Mar-09 A	12-Apr-12	0d
T1-00235	AWARD: DIVISION 02: SITEWORK	0d	0d	03-Mar-09 A		
T1-00510	AWARD: DIVISION 16: SITE ELECTRICAL	0d	0d	04-Mar-09 A		
T1-14015	SUBMIT: WIRE & CABLE-SITE	21d	0d	04-Mar-09 A	31-Mar-09 A	
T1-14060	SUBMIT: BOXES & FITTINGS-SITE	21d	0d	04-Mar-09 A	31-Mar-09 A	
T1-14150	SUBMIT: VIBRATION ISOLATION-SITE	33d	0d	04-Mar-09 A	16-Apr-09 A	
T1-14120	SUBMIT: GROUNDING-SITE	43d	0d	04-Mar-09 A	30-Apr-09 A	
T1-14090	SUBMIT: UNDERGROUND-SITE	60d	0d	04-Mar-09 A	26-May-09 A	
T1-00300	AWARD: DIVISION 05: METALS	0d	0d	30-Mar-09 A		
T1-14065	TORCON RVW & APPRV: BOXES & FITTINGS-SITE	1d	0d	02-Apr-09 A	02-Apr-09 A	
T1-14020	TORCON RVW & APPRV: WIRE & CABLE-SITE	2d	0d	02-Apr-09 A	02-Apr-09 A	
T1-14075	BNL RVW & APPRV: BOXES & FITTINGS-SITE	11d	0d	03-Apr-09 A	16-Apr-09 A	
T1-14025	BNL RVW & APPRV: WIRE & CABLE-SITE	10d	0d	06-Apr-09 A	16-Apr-09 A	
T1-14155	TORCON RVW & APPRV: VIBRATION ISOLATION-SITE	5d	0d	20-Apr-09 A	23-Apr-09 A	
T1-14165	BNL RVW & APPRV: VIBRATION ISOLATION-SITE	13d	0d	27-Apr-09 A	13-May-09 A	
T1-14125	TORCON RVW & APPRV: GROUNDING-SITE	1d	0d	01-May-09 A	01-May-09 A	
T1-14135	BNL RVW & APPRV: GROUNDING-SITE	39d	0d	04-May-09 A	25-Jun-09 A	
T1-29710	AWARD: DIVISION 05: MISC METALS #2	0d	0d	06-May-09 A		
T1-11945	SUBMIT: EQUIPMENT SUPPORTS / EMBEDS	8d	0d	06-May-09 A	15-May-09 A	
T1-11950	TORCON RVW & APPRV: EQUIPMENT SUPPORTS / EMBEDS	1d	0d	18-May-09 A	18-May-09 A	
T1-11955	BNL RVW & APPRV: EQUIPMENT SUPPORTS / EMBEDS	9d	0d	19-May-09 A	01-Jun-09 A	
T1-14095	TORCON RVW & APPRV: UNDERGROUND-SITE	1d	0d	28-May-09 A	28-May-09 A	
T1-14105	BNL RVW & APPRV: UNDERGROUND-SITE	10d	0d	29-May-09 A	11-Jun-09 A	
T1-13640	SUBMIT: DOMESTIC HOT/COLD, SANITARY PENTANT 1	10d	0d	12-Jun-09 A	06-Aug-09 A	
T1-00480	AWARD: DIVISION 15: PLUMBING	0d	0d	12-Jun-09 A		
T1-29335	FABRICATE: CONCRETE EMBEDS PHASE 1	20d	0d	30-Jun-09 A	16-Sep-09 A	
T1-13645	TORCON RVW & APPRV: DOMESTIC HOT/COLD, SANITARY PENTANT 1	5d	0d	07-Aug-09 A	13-Aug-09 A	
T1-13650	BNL RVW & APPRV: DOMESTIC HOT/COLD, SANITARY PENTANT 1	10d	2d	14-Aug-09 A	02-Oct-09	0d
T1-29770	DELIVER: CONCRETE EMBEDS PHASE 1	1d	0d	16-Sep-09 A	16-Sep-09 A	
T1-24390	SUBMIT: TESTING & BALANCING FINAL REPORT	20d	20d	24-Feb-12	22-Mar-12	0d
T1-24395	TORCON RVW & APPRV: TESTING & BALANCING FINAL REPORT	5d	5d	23-Mar-12	29-Mar-12	0d
T1-24400	BNL RVW & APPRV: TESTING & BALANCING FINAL REPORT	10d	10d	30-Mar-12	12-Apr-12	0d



Remaining Level of Effort ▼ Summary
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
◆ Milestone

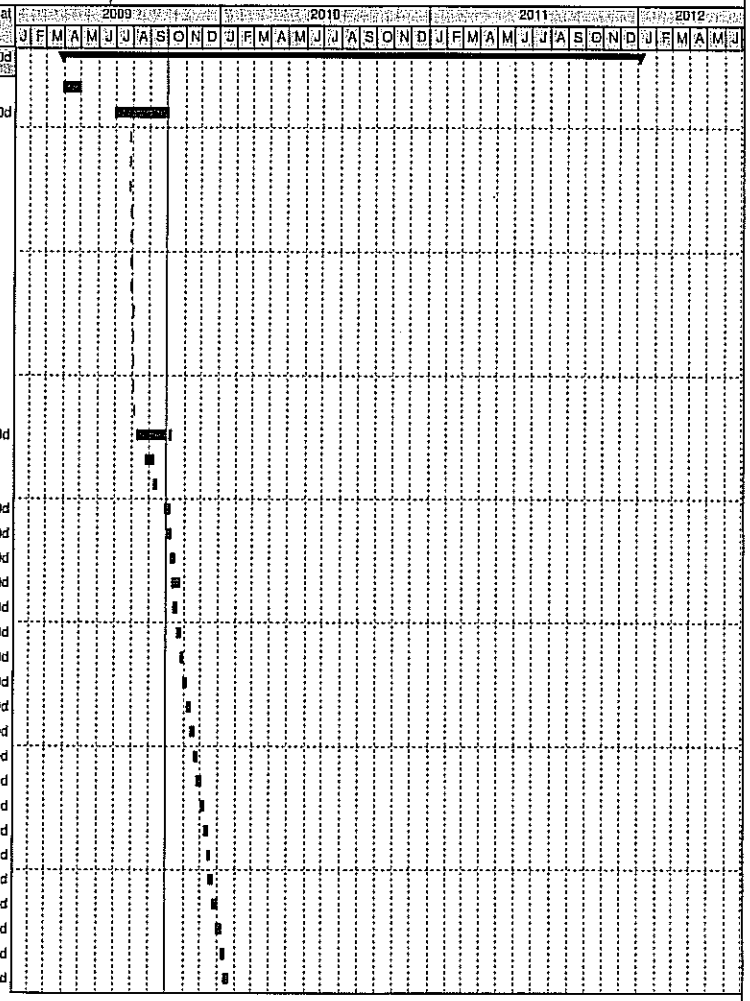
BROOKHAVEN LABORATORY: NSLS II

T1 - CRITICAL PATH

Revised as of:01-Oct-09

Torcon

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
CONSTRUCTION		703d	571d	31-Mar-09 A	03-Jan-12	0d
T1-00245	MOBILIZE EARTHWORK	24d	0d	31-Mar-09 A	29-Apr-09 A	
T1-06615	INSTALL HH1 DUCTBANK @ CL 103	5d	1d	30-Jun-09 A	01-Oct-09	0d
T1-14275	FRP FOUNDATIONS CL 103 - 105	1d	0d	27-Jul-09 A	27-Jul-09 A	
T1-14280	STRIP & BACKFILL FOUNDATIONS CL 103 - 105	1d	0d	28-Jul-09 A	28-Jul-09 A	
T1-14290	FRP FOUNDATIONS CL 106 - 108	1d	0d	28-Jul-09 A	28-Jul-09 A	
T1-14295	STRIP & BACKFILL FOUNDATIONS CL 106 - 108	1d	0d	29-Jul-09 A	29-Jul-09 A	
T1-14305	FRP FOUNDATIONS CL 109 - 111 (Includes Lobby)	3d	0d	29-Jul-09 A	30-Jul-09 A	
T1-14320	FRP FOUNDATIONS CL 112 - 114	1d	0d	30-Jul-09 A	31-Jul-09 A	
T1-14335	FRP FOUNDATIONS CL 115 - 117	1d	0d	30-Jul-09 A	31-Jul-09 A	
T1-14310	STRIP & BACKFILL FOUNDATIONS CL 109 - 111	1d	0d	03-Aug-09 A	03-Aug-09 A	
T1-14325	STRIP & BACKFILL FOUNDATIONS CL 112 - 114	1d	0d	03-Aug-09 A	03-Aug-09 A	
T1-14340	STRIP & BACKFILL FOUNDATIONS CL 115 - 117	1d	0d	03-Aug-09 A	03-Aug-09 A	
T1-14350	FRP FOUNDATIONS CL 118 - 120	2d	0d	03-Aug-09 A	04-Aug-09 A	
T1-14355	STRIP & BACKFILL FOUNDATIONS CL 118 - 120	2d	0d	05-Aug-09 A	05-Aug-09 A	
T1-17200	INSTALL SANITARY UG SB1 / PENTANT 1	15d	5d	10-Aug-09 A	09-Oct-09	0d
T1-14450	FRP TUNNEL SLAB CL 102-108	7d	0d	24-Aug-09 A	09-Sep-09 A	
T1-14455	FRP TUNNEL SLAB CL 108-114	7d	0d	09-Sep-09 A	14-Sep-09 A	
T1-14480	FRP TUNNEL WALLS @ RATCHET 21A	5d	4d	28-Sep-09 A	06-Oct-09	0d
T1-14485	FRP TUNNEL WALLS @ RATCHET 21B	5d	5d	02-Oct-09	08-Oct-09	0d
T1-14490	FRP TUNNEL WALLS @ RATCHET 22A	5d	5d	08-Oct-09	14-Oct-09	0d
T1-14460	FRP TUNNEL SLAB CL 114-120	10d	10d	12-Oct-09	23-Oct-09	0d
T1-14495	FRP TUNNEL WALLS @ RATCHET 22B	5d	5d	14-Oct-09	20-Oct-09	0d
T1-14500	FRP TUNNEL WALLS @ RATCHET 23A	5d	5d	20-Oct-09	26-Oct-09	0d
T1-14505	FRP TUNNEL WALLS @ RATCHET 23B	5d	5d	26-Oct-09	30-Oct-09	0d
T1-14510	FRP TUNNEL WALLS @ RATCHET 24A	5d	5d	30-Oct-09	05-Nov-09	0d
T1-14515	FRP TUNNEL WALLS @ RATCHET 24B	5d	5d	05-Nov-09	12-Nov-09	0d
T1-14520	FRP TUNNEL WALLS @ RATCHET 25A	5d	5d	12-Nov-09	18-Nov-09	0d
T1-14525	FRP TUNNEL WALLS @ RATCHET 25B	5d	5d	18-Nov-09	24-Nov-09	0d
T1-14530	FRP TUNNEL WALLS @ RATCHET 26A	5d	5d	24-Nov-09	02-Dec-09	0d
T1-14535	FRP TUNNEL WALLS @ RATCHET 26B	5d	5d	02-Dec-09	08-Dec-09	0d
T1-14540	FRP TUNNEL WALLS @ RATCHET 27A	5d	5d	08-Dec-09	14-Dec-09	0d
T1-14545	FRP TUNNEL WALLS @ RATCHET 27B	5d	5d	14-Dec-09	18-Dec-09	0d
T1-14550	FRP TUNNEL WALLS @ RATCHET 28A	5d	5d	18-Dec-09	24-Dec-09	0d
T1-14555	FRP TUNNEL WALLS @ RATCHET 28B	5d	5d	24-Dec-09	31-Dec-09	0d
T1-14560	FRP TUNNEL WALLS @ RATCHET 29A	5d	5d	31-Dec-09	07-Jan-10	0d
T1-14565	FRP TUNNEL WALLS @ RATCHET 29B	5d	5d	07-Jan-10	13-Jan-10	0d
T1-15065	FRP TUNNEL WALLS @ RATCHET 30A	5d	5d	13-Jan-10	20-Jan-10	0d



Remaining Level of Effort
Summary
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone

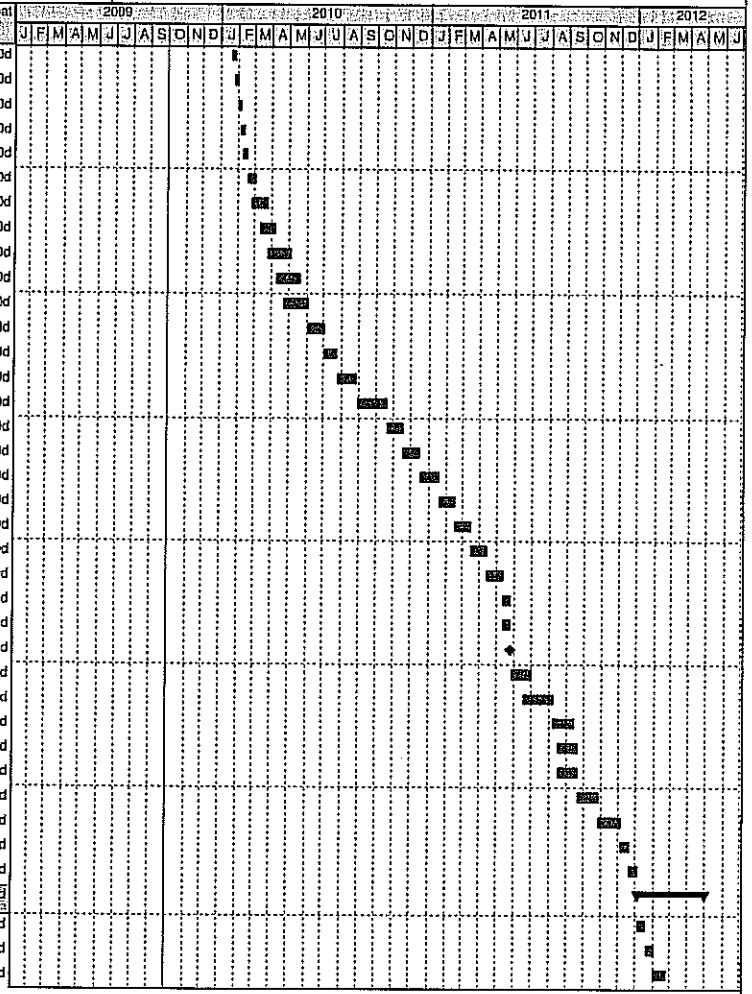
BROOKHAVEN LABORATORY: NSLS II

T1 - CRITICAL PATH

Revised as of:01-Oct-09

Torcon

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
T1-15070	FRP TUNNEL WALLS @ RATCHET 30B	5d	5d	20-Jan-10	26-Jan-10	0d
T1-15075	FRP TUNNEL WALLS @ RATCHET 01A	5d	5d	26-Jan-10	01-Feb-10	0d
T1-15080	FRP TUNNEL WALLS @ RATCHET 01B	5d	5d	01-Feb-10	05-Feb-10	0d
T1-15085	FRP TUNNEL WALLS @ RATCHET 02A	5d	5d	04-Feb-10	10-Feb-10	0d
T1-15090	FRP TUNNEL WALLS @ RATCHET 02B	5d	5d	09-Feb-10	16-Feb-10	0d
T1-15720	ERECT, BOLT, & DECK STEEL FOR COOLING TOWER	10d	10d	18-Feb-10	03-Mar-10	0d
T1-15710	ERECT, BOLT, & DECK STEEL FOR INJECTION BUILDING	20d	20d	25-Feb-10	24-Mar-10	0d
T1-15715	ERECT, BOLT, & DECK STEEL FOR RF BUILDING	20d	20d	11-Mar-10	07-Apr-10	0d
T1-15760	ERECT STEEL FOR RING BUILDING PHASE 1	30d	30d	25-Mar-10	05-May-10	0d
T1-15765	BOLT & WELD STEEL FOR RING BUILDING PHASE 1	30d	30d	08-Apr-10	19-May-10	0d
T1-15770	INSTALL DECK FOR RING BUILDING PHASE 1	30d	30d	22-Apr-10	03-Jun-10	0d
T1-17280	INSTALL TUBE STEEL FRAMING FOR PHASE 1	20d	20d	04-Jun-10	01-Jul-10	0d
T1-16465	INSTALL METAL WALL PANELS B LINE CL 102-114	15d	15d	02-Jul-10	23-Jul-10	0d
T1-16355	INSTALL STANDING SEAM METAL ROOF SYSTEM RF BUILDING	25d	25d	26-Jul-10	27-Aug-10	0d
T1-16480	INSTALL METAL PANELS RF BUILDING	35d	35d	30-Aug-10	19-Oct-10	0d
T1-16490	INSTALL METAL WALL PANELS B LINE CL 018-030	20d	20d	20-Oct-10	16-Nov-10	0d
T1-16495	INSTALL METAL WALL PANELS B LINE CL 030-042	20d	20d	17-Nov-10	16-Dec-10	0d
T1-16500	INSTALL METAL WALL PANELS B LINE CL 042-054	20d	20d	17-Dec-10	16-Jan-11	0d
T1-16505	INSTALL METAL WALL PANELS B LINE CL 054-066	20d	20d	19-Jan-11	15-Feb-11	0d
T1-16510	INSTALL METAL WALL PANELS B LINE CL 066-078	20d	20d	16-Feb-11	16-Mar-11	0d
T1-16515	INSTALL METAL WALL PANELS B LINE CL 078-090	20d	20d	17-Mar-11	13-Apr-11	0d
T1-16520	INSTALL METAL WALL PANELS B LINE CL 090-102	20d	20d	14-Apr-11	11-May-11	0d
T1-17650	INSTALL EXTERIOR DOORS AT SB 5	10d	10d	12-May-11	25-May-11	0d
T1-28955	INSTALL FIRESTOPPING PHASE 7	10d	10d	12-May-11	25-May-11	0d
T1-10215	Pentant 5 - Building Enclosure Complete	0d	0d		25-May-11	0d
T1-20960	SET ELECTRICAL EQUIPMENT PENTANT 5	25d	25d	26-May-11	30-Jun-11	0d
T1-20965	ROUGH IN CABLE TRAY & CONDUIT PENTANT 5	35d	35d	17-Jun-11	08-Aug-11	0d
T1-21570	ROUGH IN FIRE ALARM CONDUIT PENTANT 5	25d	25d	09-Aug-11	13-Sep-11	0d
T1-21600	ROUGH IN TELE/DATA CONDUIT PENTANT 5	25d	25d	16-Aug-11	20-Sep-11	0d
T1-21630	ROUGH IN SECURITY CONDUIT PENTANT 5	25d	25d	16-Aug-11	20-Sep-11	0d
T1-21645	ROUGH IN SECURITY CONDUIT SB5	25d	25d	21-Sep-11	26-Oct-11	0d
T1-22105	INSTALL DRYWALL WALLS & CEILINGS IN SB5	25d	25d	27-Oct-11	05-Dec-11	0d
T1-22230	INTERIOR PAINTING SB5	10d	10d	06-Dec-11	19-Dec-11	0d
T1-18425	INSTALL RGDs SB5 /FS ROOM	9d	9d	20-Dec-11	03-Jan-12	0d
STARTUP & COMMISSIONING		84d	84d	04-Jan-12	30-Apr-12	0d
T1-25320	CUSTOM AHU'S STARTUP/TORCON COMMISSIONING PENTANT 5	10d	10d	04-Jan-12	18-Jan-12	0d
T1-27350	AIR BALANCING PENTANT 5	10d	10d	19-Jan-12	01-Feb-12	0d
T1-28625	FINAL FACILITY AIR BALANCING	15d	15d	02-Feb-12	23-Feb-12	0d



Remaining Level of Effort
Actual Level of Effort
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

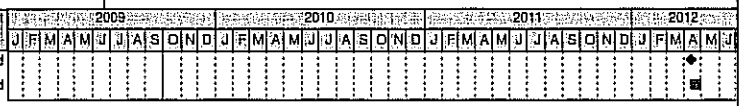
BROOKHAVEN LABORATORY: NSLS II

T1 - CRITICAL PATH

Revised as of:01-Oct-09

Torcon

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	Total Float
T1-28830	Final Facility - Torcon Commissioning Complete	0d	0d		12-Apr-12	0d
T1-28845	Final Facility - Cleanup & Turnover	12d	12d	13-Apr-12	30-Apr-12	0d



Remaining Level of Effort
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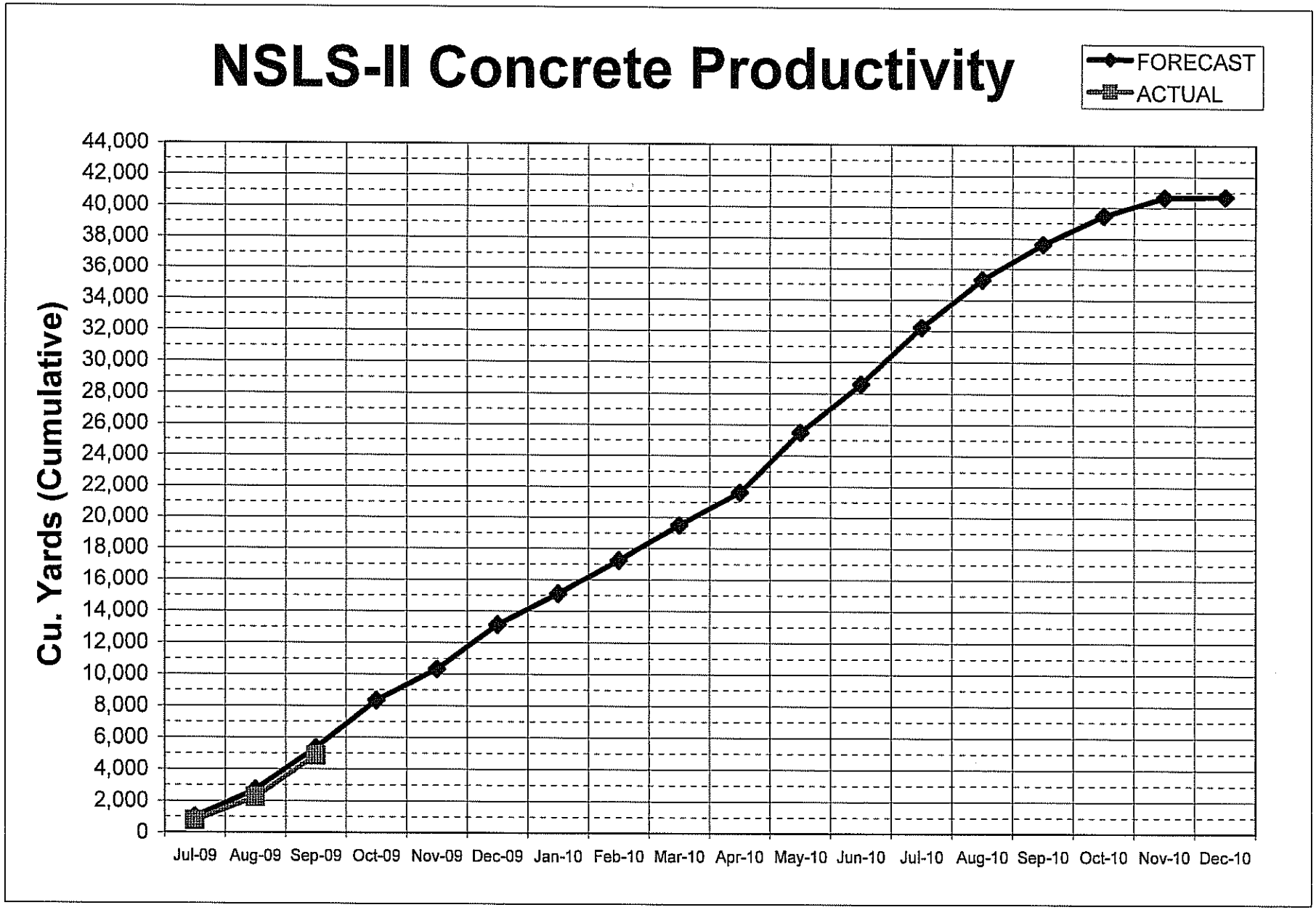
BROOKHAVEN LABORATORY: NSLS II

T1 - CRITICAL PATH

Revised as of:01-Oct-09

Torcon


NSLS-II Concrete Productivity
FORECAST
ACTUAL
Cu. Yards (Cumulative)
44,000
42,000
40,000
38,000
36,000
34,000
32,000
30,000
28,000
26,000
24,000
22,000
20,000
18,000
16,000
14,000
12,000
10,000
8,000
6,000
4,000
2,000
0
Jul-09
Aug-09
Sep-09
Oct-09
Nov-09
Dec-09
Jan-10
Feb-10
Mar-10
Apr-10
May-10
Jun-10
Jul-10
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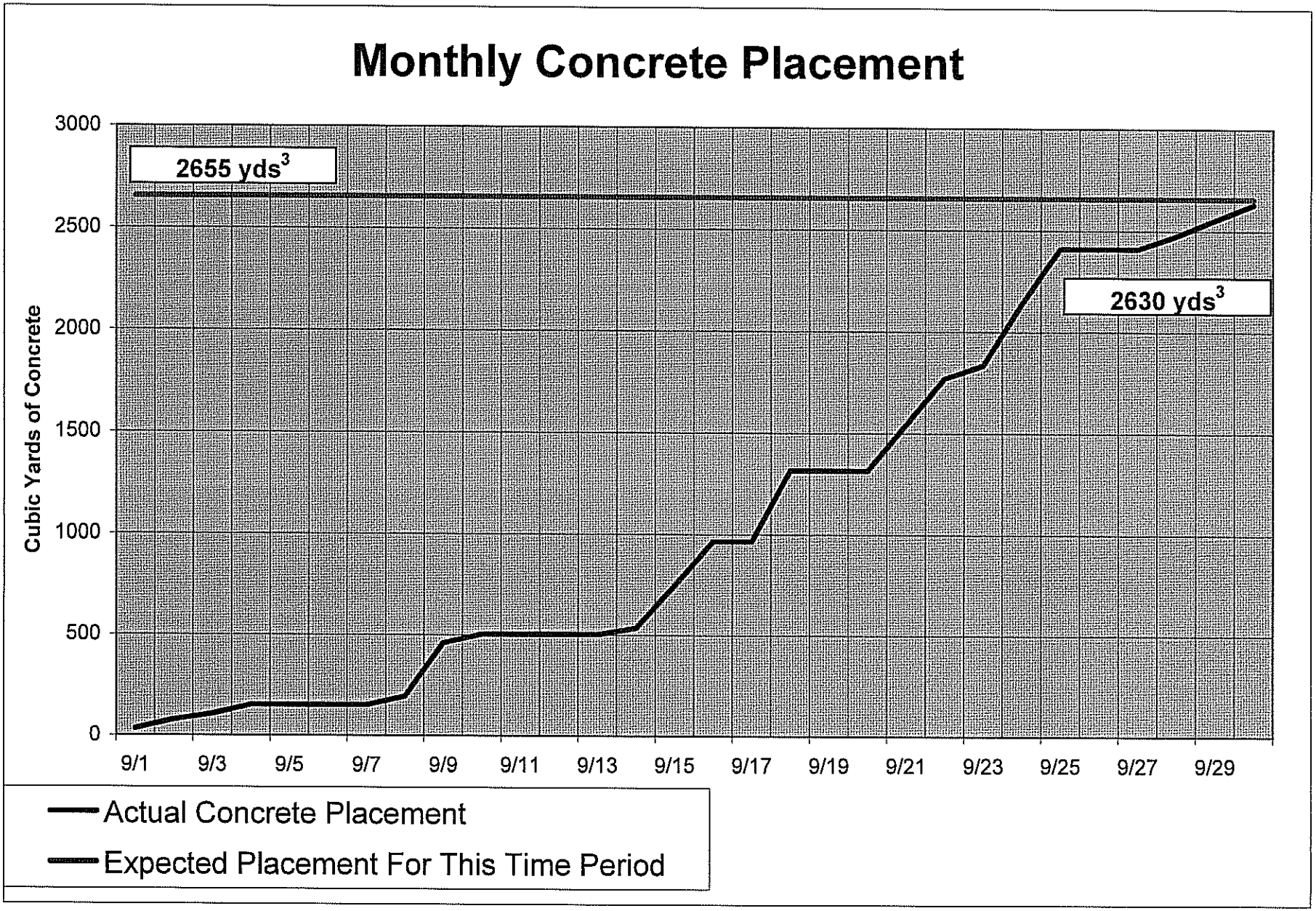
Sep-10
Oct-10
Nov-10
Dec-10


Monthly Concrete Placement
3000
2500
2000
1500
1000
500
0
Cubic Yards of Concrete
2655 yds3
2630 yds3
9/1
9/3
9/5
9/7
9/9
9/11
9/13
9/15
9/17
9/19
9/21
9/23
9/25
9/27
9/29
Actual Concrete Placement
Expected Placement For This Time Period

PROJECT OVERVIEW

Torcon

SAFETY OVERVIEW

- Safety, Health & Environmental Plan

Forty-seven new employees were given orientation in September, making a total of 280 people trained since the beginning of the project in April 2009.

Torcon Safety Orientation is given on Monday through Friday at the Tocon Office. BNL CVO is conducted at the Torcon Office on Tuesdays and Thursdays. Arrangements are being made to badge incoming employees on the project site as well.

Three (3) workers were presented with $50.00 gift cards through the Torcon Safety Recognition Program in September for outstanding safety performance.

On September 25, Torcon held a Safety Awareness and Appreciation Luncheon for all the crews on the project. This was in recognition of their sefety efforts and good safety efforts and good sefety attitude during the first six months of the project.

- Occupational Medicine and First Aid Program

On site drug testing started this month, conducted by the on-duty EMT. This is much is more efficient for the new hire process, as opposed to the going to an outside laboratory.

- Manpower Reporting

For September, the project worked 17,200 man-hours; subcontractors and Torcon combined. This included 15,688 hours for subcontractors and 1,512 hours for Torcon. This brings our total project man-hours to 60,208 since April 2009.

PROJECT OVERVIEW

TORCON

- Incident Reporting

On Wednesday, September 30, there was a serious injury on the project, In which a worker's leg was broken. The emergency reporting procedure worked as designed and quickly. The ambulance response from the Lab was very fast and professional. A full investigation of the causes of this incident is underway by both Torcon and the DOE, with an eye toward future preventative measures that can be identified.

For September 2009, one recordable injury, two first aid injury and no near misses were reported.

Totals for the project to date:

- 3 Recordable Injuries
- 3 First Aid Injury
- 0 Near Misses

TORCON

TORCON MONTHLY MANHOUR REPORT

Brookhaven - NSLS II
Project # 09003
Printed on: 10/6/2009

September 2009

Torcon, Inc.

Total Days:	189
Total Hours :	1,512
Average Daily Workforce:	9.00

All Other Jobsite Personnel

Total Days:	1,961
Total Hours :	15,688
Average Daily Workforce:	93.38

MONTH TOTALS

Total Days:	2,150
Total Hours :	17,200
Average Daily Workforce:	102.38

Total Workdays in Month:	21

TORCON

TORCON MONTHLY MANHOUR REPORT

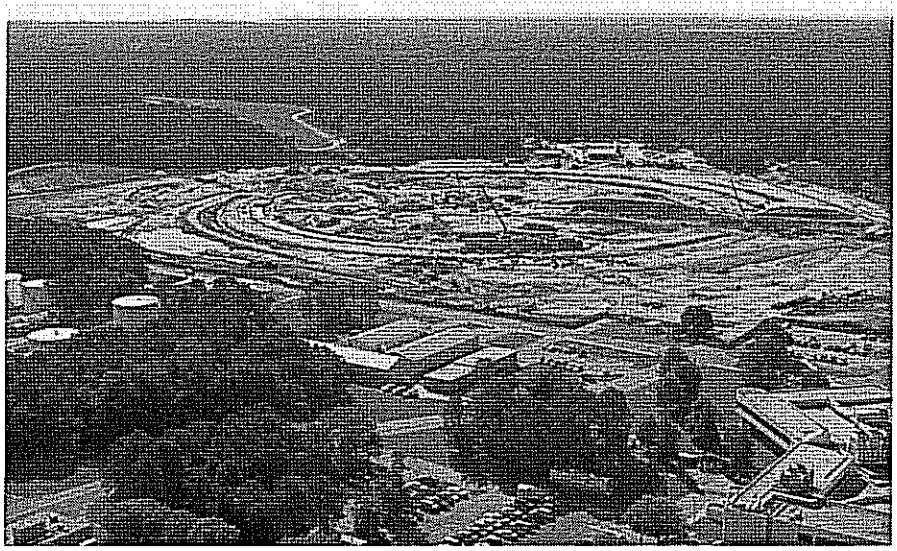
Brookhaven - NSLS II
Project # 09003
Printed on: 10/6/2009

REPORT PERIOD TOTALS

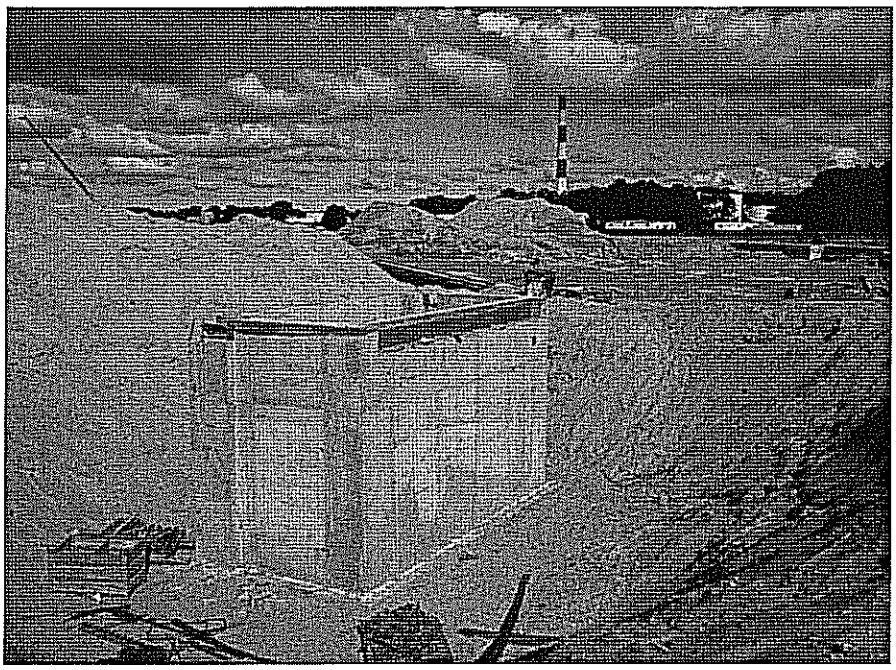
Total Days:	**7,526**
Total Hours :	**60,208**
Average Daily Workforce:	**59**
Total Workdays in Report Period:	**128**

PROGRESS PHOTOS

TORCON

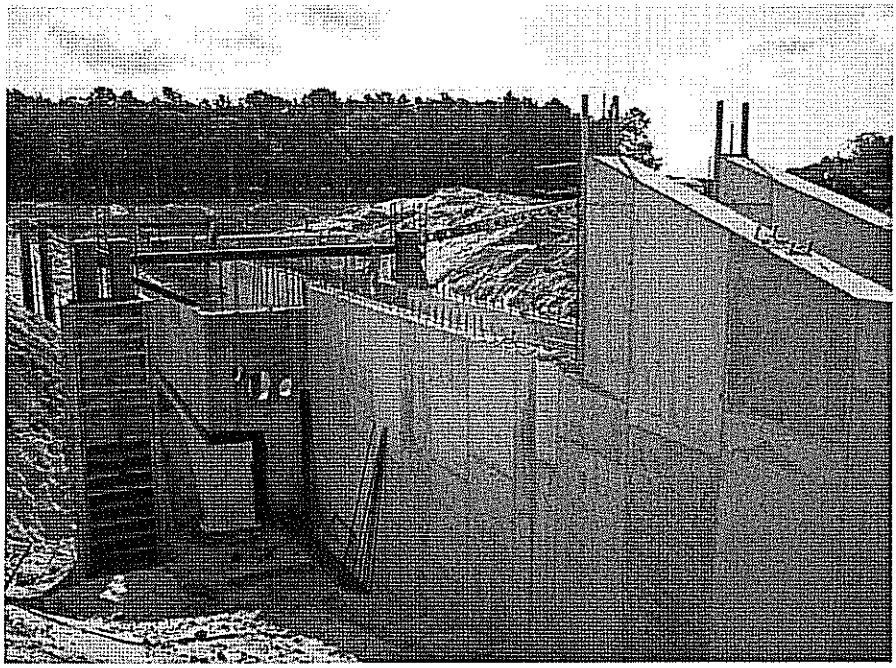


09/30/09 – NSLS-II As Seen From Stack Construction Cam #4

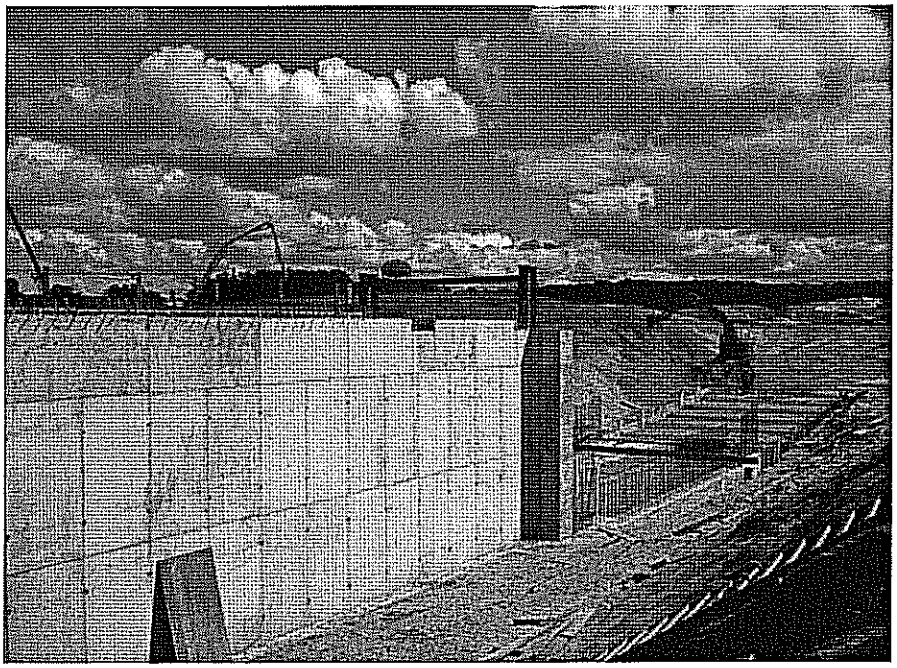


09/30/09 – Service Building #2: Utility Pit

PROGRESS PHOTOS



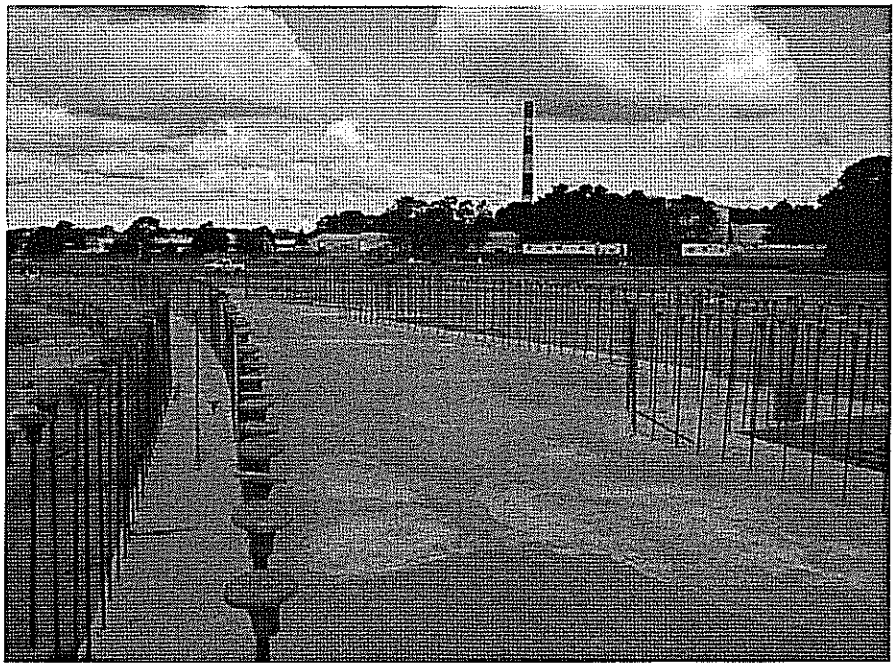
09/30/09 – Utility Access Tunnel: Waterproofing, Backfill & Encased Beams



09/30/09 – Vehicle Access Tunnel: Steel Columns & Continued Footings & Walls

PROGRESS PHOTOS

09/30/09 – Ring Building Structural Fill & Storage Tunnel SOG at Phase I



09/30/09 – Storage Tunnel Slab on Grade at Phase I

TORCON

PROGRESS PHOTOS

09/30/09 – Lobby Area: Backfill & Waterproofing

09/30/09 – Service Building #1: Foundations & Utility Pit Waterproofing

Torcon

PROGRESS PHOTOS

09/30/09 – Storage Ring Walls: Rebar, Formwork & Concrete Placement at Phase I

09/30/09 – Storage Ring Walls at Phase I & RF Building Backfill at Phase II

TORCON

PROGRESS PHOTOS

09/30/09 – Storage Ring Ratchet Wall Construction at Phase I

09/30/09 – Storage Ring Wall Steel Inserts at Phase I

Torcon

PROGRESS PHOTOS

09/30/09 – Compressor Building Foundation at Phase II

09/30/09 – Sidewalk & Gutter/Curb Detail at Northern End of Site

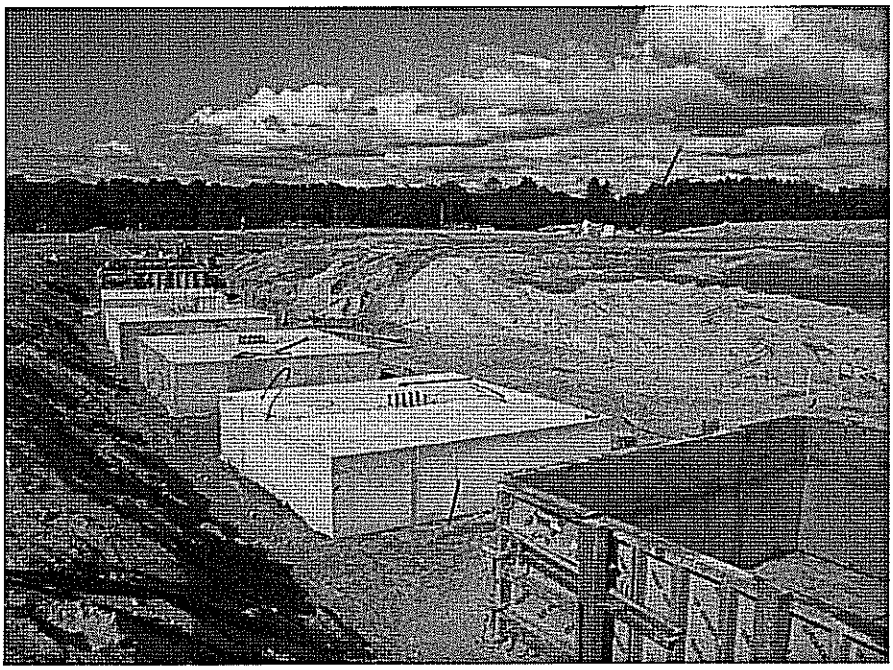
Torcon

PROGRESS PHOTOS

09/30/09 – Primary Alignment Monument

09/30/09 – Site Utilities: Storm Service with Manhole at Northeast Quadrant of Site

PROGRESS PHOTOS



09/30/09 – Foundations: B-Line Column Footings at Phase V

09/30/09 – Material: Steam Piping Stockpile Located at Southern End of Site