LILCO LONG ISLAND LIGHTING

LONG ISLAND LIGHTING COMPANY
SHOREHAM NUCLEAR POWER STATION
P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

July 30, 1981 SNRC-607

RECEIVED
AUG 03 1981
U.S. NUCLEAR REGULATORY COMMISSION

Mr. Harold R. Denton, Director
Office Of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SHOREHAM NUCLEAR POWER STATION - Unit 1
Docket No. 50-322

Dear Mr. Denton:

At the July 15, 1981 meeting in Bethesda on Shoreham's Safety-Related Masonry Walls, we agreed to provide certain information required by the NRC Staff to resolve outstanding concerns in this area.

Attached is the point by point response to the NRC Staff concerns, in accordance with the 7/15/81 meeting agreements. Also enclosed for your review are five (5) copies of the quality assurance documentation relative to the subject masonry walls.

We trust that this submittal has been responsive to your request and will provide sufficient detail to resolve your concerns. Should you require additional clarification on this matter, please feel free to contact us.

Very truly yours,

for

B. R. McCaffrey
Manager, Project Engineering
Shoreham Nuclear Power Station

CKS/mh

Enclosures

cc: J. Higgins

B001
s
1/5

SEND Encl. to:
REG Files
PDR
[redacted]
NSIC
NTIS
SEB (Advanced)

8108040444 810730
PDR ADOCK 05000322
A PDR

FC-8935

July 27, 1981

SAFETY RELATED MASONRY WALLS
SHOREHAM NUCLEAR POWER STATION
LONG ISLAND LIGHTING COMPANY

As a result of a meeting held with the Structural Engineering Branch of the NRC on July 15, 1981, a number of concerns were raised by the NRC relative to Shoreham's Safety Related Masonry Walls. Each concern is itemized and addressed below by providing Shoreham specific information.

ITEM 1.0

LILCO will provide to the NRC, by August 1, 1981, copies of the QA Program applicable to masonry walls. This will include documentation required to assure that each as-built wall fulfills specified design requirements and assures compliance with the NRC's special inspection items. Upon complete review of this documentation by Staff for compliance with the special inspection requirements, additional testing may be requested.

RESPONSE

All safety related masonry walls at the Shoreham Nuclear Power Station have been erected under a highly monitored and controlled Quality Control program. The Quality Control program emphasized both materials utilized in the construction of the masonry walls and the actual construction process itself.

Specific areas where Quality Control has been emphasized in safety related masonry construction are listed below:

1. Masonry Unit Properties, Including:
   a. Density
   b. Moisture content (%)
   c. Absorption (%)
   d. Shrinkage (%)
   e. Dimensional verification
   f. Compressive strength

2. Mortar and Grout, Including:
   a. Development of trial mixes
   b. Compressive strength
   c. Aggregate gradation
   d. Aggregate organic impurity
   e. Cement quality
   f. Water quality

3. Inspection of Safety Related Wall Construction, Including:

   a. Storage and protection of materials
   b. Weather and temperature control during wall construction
   c. Mortar strength testing (strength cubes)
   d. Mortar batching
   e. Internal shrinkage reinforcement
   f. Wall boundary construction details (clip angles, strap anchors)
   g. Precast concrete unit control (lintels)

All of the above tests and inspections result in an assurance that the safety related walls at Shoreham actually meet the original design assumptions. All of the above tests and inspections, performed both prior to construction and during construction, are documented in the attached Quality Control Reports. These reports are forwarded for Staff review to demonstrate compliance with inspection and testing requirements.

ITEM 2.0

Any walls not installed to date will be constructed and designed in accordance with the new construction criteria (reinforced walls) delineated in the July Interim Criteria.

RESPONSE

Safety Related Masonry Walls that have not been erected will be redesigned to conform to Revision 1 of the SEB Interim Criteria as noted herein. All future walls will be designed and constructed as reinforced masonry walls.

ITEM 3.0

The Staff will perform an inspection of safety related Masonry Walls at Shoreham. A tentative date for this inspection is July 23, 1981, subject to finalization by J. Wilson of the NRC.

RESPONSE

An in-plant inspection of all safety related Masonry Walls was performed on July 23, 1981 by SEB Staff members, accompanied by LILCO and Stone & Webster representatives. The Field inspection centered on the as-built quality of the safety related masonry walls with a thorough review of the walls for possible shrinkage cracks. The Field inspection found all masonry walls sound, appearing as well constructed building elements. Two local shrinkage cracks in the reactor building elevator shaft were identified and pointed out to the NRC during the Field inspection. Both cracks will be repaired by a Staff-approved procedure.

ITEM 4.0

Any blockouts in concrete walls which have been filled with masonry blocks will be included in this evaluation. Specific identification of each blockout and total numbers of these blockouts will be provided to the NRC by August 1, 1981. Uninstalled blockouts of this type shall be installed in accordance with the criteria for new construction. Any installed blockouts shall be handled on a case-by-case basis.

RESPONSE

Blockouts in concrete walls which have been filled with masonry blocks, within safety related areas, will be included in the Shoreham masonry wall evaluation. The following masonry filled blockouts are within safety related areas:

	Reference Drawing
1. Main Steam Tunnel Opening @ El. 90'-6"	11600.02-FA-20B
2. Two Openings in the Fuel Pool Heat Exchanger and Pump Cubicle @ El. 151'-9" and El. 155'-9"	11600.02-FA-20B

Item No. 1 above is presently not installed and will be redesigned to conform with the July SEB Interim Criteria. Both openings listed in Item No. 2 are currently installed. These blockouts will be evaluated for conformance with the Interim Criteria and if required, strengthened to meet the Acceptance Criteria.

ITEM 5.0

Clips attached to the floor slab are to be provided on both sides of the masonry walls at the bottom. If access does not permit, it is not required for the clips to be continuous. A wall-by-wall description of the clips to be provided shall be submitted to the Staff by August 1, 1981.

RESPONSE

All safety related masonry walls will be provided with clip angles located on both sides of the wall at the intersection of the wall and floor slab. Where possible, clips will be installed the full length of the wall. Where access cannot be obtained, clips will be discontinued around the obstructions.

ITEM 6.0

The August 1, 1981 submittal to the Staff will include a statement indicating that Shoreham will comply with the July Interim Criteria and will reinforce the masonry walls as required to fulfill this commitment.

RESPONSE

All safety related masonry walls at Shoreham are currently being as-built reviewed to identify all wall attachments. All safety related walls will be re-evaluated for the actual attachment loads utilizing Revision 1 of the SEB Interim Criteria as a basis for acceptance. Where individual walls exceed the acceptance criteria, they will be modified as required.

ITEM 7.0

A Site inspection will be performed prior to the Staff visit specifically to identify cracks in the masonry walls. Any cracks detected shall be repaired with repair procedures acceptable to the Staff.

RESPONSE

See Item 3.0 above.

ITEM 8.0

A clarification of the loading combinations which are applicable to masonry walls at Shoreham shall be provided to the Staff by August 1, 1981.

RESPONSE

The following load combinations are applicable to safety related masonry walls at the Shoreham Nuclear Power Station:

1. D+L
2. D+L+1.25E (OBE)
3. D+L+E (DBE)

The balance of load combinations and individual load components as noted in Section 2.0 "Loads & Load Combinations" of the July 1981 Interim Criteria, do not apply to safety related masonry walls at the Shoreham Nuclear Power Station. Masonry walls have not been utilized as pipe support or restraint attachment points, pressure boundaries, jet shields, missile shields or as external walls where normal wind loads would be of a concern. Therefore, the above load combinations will be applied to safety related masonry walls at Shoreham.

ITEM 9.0

For initial wall evaluation, m_o and f_m shall be the minimum specified values in the design specification. If required, use of other crtieria will be evaluated on a case-by-case basis, subject to Staff acceptance.

RESPONSE

Initial wall evaluations will utilize the minimum specified values for mortar compressive strength and masonry compressive strength. Use of actual material test results will be subject to Staff approval.

ITEM 10.0

Detailed, Shoreham specific information on design and analysis considerations (Item 4 in the July Interim Criteria) shall be provided to the Staff by August 1, 1981. Deviations from the July Interim Criteria will be highlighted and justification for the use of any other criteria shall be provided.

RESPONSE

The following items correspond to the subsection numbers of Section 4.0, "Design and Analysis Considerations", of the SEB Interim Criteria for Safety-Related Masonry Wall Evaluation, Revision 1.0, dated July 1981. The responses provide Shoreham specific information for each subsection:

4a. The analysis of safety related block walls for the Shoreham Nuclear Power Station has followed established principles of Engineering Mechanics and takes into account sound engineering practices.

4b. The evaluation of Shoreham's safety related masonry walls has included proper consideration for boundary conditions, cracking of sections and dynamic behavior of the masonry walls.

All wall boundaries have been considered pinned. To ensure such a condition in the as-built walls, restraint angles have been provided at the top of each safety related wall. Vertical wall boudaries have been provided with embedded steel strap anchors to provide positive shear transfer. The base of each safety related wall will be provided with restraint angles as noted in Item 5.0 above.

Safety related walls have been designed and constructed as non-load-bearing, unreinforced masonry walls. As such, they have been considered as uncracked sections. To verify this condition, the Applicant will perform an inspection of all safety related walls to ensure that they are crack-free. This inspection will be verified and reviewed as noted in Item 3.0 above.

The dynamic behavior of each safety related wall has been considered by determining the fundamental frequency of each wall element and applying the appropriate acceleration as obtained from the peak-broadened, amplified response spectra.

4c. Damping values utilized in the evaluation of Shoreham's safety related masonry walls correspond to 0.5% and 1.0%.

4d. The method of seismic analysis utilized for safety related masonry walls is based on the procedures as described in SNPS-1 FSAR Section 3.7A "Seismic Design". To account for the variations and uncertainties in mass, materials and other parameters in the seismic analysis, the amplified response spectra (ARS) are peak-broadened by +25% and -20% at the peak resonant periods.

4e. The evaluation of Shoreham's safety related masonry walls has considered both in-place and out-of-plane loads.

4f. Interstory drift effects will be considered in the evaluation of safety related masonry walls.

4g. Where grout is used in the construction of new safety related masonry walls, it shall be consolidated by vibration.

4h. Masonry walls at the Shoreham Nuclear Power Station have not been designed or constructed to function as building shear elements.

4i. Multiwythe or composite masonry walls have not been utilized in the Shoreham Nuclear Power Station design.

4j. Quality Assurance and Quality Control documentation has been provided with this submittal as noted in Item 1.0 above. The QA/QC documentation provides a clear record of the special inspection that was imposed on the construction of safety related masonry walls at Shoreham.

4k. Safety related masonry walls have not been utilized as attachment points for pipe supports, pipe restraints, jet impingement barriers or as missile barriers.

ITEM 11.0

Line Loads shall not be applied on Shoreham's masonry walls. A Line Load is defined as follows: a line load exists where the attachment loads in any two courses are greater than 30% of the dead load of the two courses. If this criteria cannot be met, alternate criteria shall be evaluated on a case-by-case basis.

RESPONSE

All safety related walls will be reviewed for attachment loads that potentially meet the above line load criteria. If such as-built load configurations exist, the attachments will be modified to eliminate the line load.

ITEM 12.0

Evaluation of the as-built attachments to the masonry walls shall be completed and proposed fixes, if required, shall be submitted to the Staff for review by February 1, 1982. Any fixes required shall be approved by Staff and completed prior to fuel load.

RESPONSE

The re-evaluation of all safety related wall will be completed and proposed fixes, if required, shall be submitted to the Staff for review by February 1, 1982. All safety related wall modifications will be completed prior to fuel load.

Supplier Doc

SOUTH SHORE BRICK MASONS, INC.

80 REDINGTON STREET [illegible] BAY SHORE, NEW YORK

[illegible] Engineering Corp.
[illegible]
[illegible], New York 11792

Att: [illegible]
[illegible]

Gentlemen:

Re: Shoreham Nuclear Power Station Unit No. 1
Furnish & Erect Concrete Masonry
[illegible]
Long Island Lighting Company
J. O. No. [illegible]

Enclosed are the following:

1. Letter dated 3/3/75 from South Shore Brick Masons, Inc. relative to the proposed ingredients to be used in the mix design.
2. Letter from [illegible] dated [illegible]/75 and also test data relative to the [illegible] property requirements of the masonry units. Also certification of compliance to the specification requirements of the masonry units.
3. Letter from [illegible], Inc. dated 2/25/75 relative to performance data for the precast sills, lintels and copings to be used on this project.
4. Certification [illegible] Corner Inc. dated 3/2/75 relative to lime to be used on this project.
5. Certification from [illegible] Inc. dated 3/1/75 relative to sand to be used on this project.
6. Certification from [illegible] Industries, Inc. relative to Portland Cements to be used on this project.
7. Certification from [illegible] Sand & Gravel Corp. dated March 9, 1975 relative to aggregate for this project.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

Walter J. [illegible]

[illegible]
[illegible]

SAL PICONE & SONS, INC.
ROCKY POINT ROAD, P.O. BOX 156, MIDDLE ISLAND, LONG ISLAND, NEW YORK 11953 • (516) 924-6200

February 25, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bay Shore, New York 11706

Re: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

Enclosed please find test data relating to the physical property requirements of the masonry units we propose to manufacture and deliver to subject project.

Compression test data will be forwarded as soon as current tests are complete.

Also, please find attached, certification of compliance to specification requirements.

Very truly yours,

SAL PICONE & SONS, INC.

Vito Picone
President

VP:ljl
Encs.

1

LONG ISLAND materials testing laboratories, inc.

3 ALBANY AVE. N. AMITYVILLE, N.Y. 11701 (516) 691-7700 • 2020 HALPERIN AVE., BRONX, N.Y. 10461 (212) 892-2910
LONG ISLAND OFFICE N.Y.C. OFFICE X

August 23,1975

Client: Sal Picone & Sons, Inc., Rocky Point Road, Middle Island, NY 11953
Project: LILCO Nuclear Power Plant, Shoreham, New York

Subject: DRYING SHRINKAGE OF SUBMITTED CONCRETE MASONRY UNITS ASTM C426-70

Manufacturers Identification- Hollow Pumice Masonry Units
Actual Dimensions- 7.65'' x 7.60" x 17.75" (WxHxL)
Nominal Dimensions- 8" x 8" x 18" (WxHxL)
Gross Cross Sectional Area- 135.79 in. sq.

LAB NO.	SAMPLE NO'	SHRINKAGE (in.)	SHRINKAGE (%)	ABSORPTION (%)	MOISTURE CONTENT AS RECEIVED %
IL 462	1	.0054	.054	9.74	2.71
63	2	.0042	.042	10.21	2.52
64	3	.0061	.061	10.43	2.84
Averages:		.0052	.052	10.13	2.69

Moisture Content received as a % of Total Absorption- 26.55%
Average Annual Rel. Humidity (% at Mac Arthur Airport)- 75%+

Block conform to ASTM C90 Table 1, Linear Shrinkage of Hollow Load Bearing Concrete Masonry Units.

Respectfully submitted,
LONG ISLAND MATERIALS TESTING LABS., INC.

C.E. Boss P.E.

Charles E. Boss, P.E.- Vice-President

CEB:nF
cc: 6- Client
1-File;2-Acct'g

SAL PICONE & SONS, INC.
ROCKY POINT ROAD, P.O. BOX 155, MIDDLE ISLAND, LONG ISLAND, NEW YORK 11953 • (516) 924-6200

February 25, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bay Shore, New York 11706

Re: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will serve to certify that the masonry units we propose to manufacture and deliver to subject project will conform to the following ASTM Specifications:

ASTM C-90, Type 1, Hollow load bearing concrete masonry unit.
ASTM C-129, Type 1, Hollow non-load bearing concrete masonry unit.
ASTM C-145, Type 1, solid load bearing concrete masonry unit.

Materials used in manufacture shall conform to ASTM C-33.

Very truly yours,

SAL PICONE & SONS, INC.

Vito Picone
President

VP:ljl

Sworn to before me this 25th day of February, 1976. State of New York, County of Suffolk.

NOTARY

SAL [illegible] & SONS, INC.
ROCKY POINT ROAD, P.O. BOX 156, MIDDLE ISLAND, LONG ISLAND, NEW YORK 11953 • (516) 924-6200

February 25, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bay Shore, New York 11706

Attention: Mr. Walter Hawrys

Re: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

As per specifications pertaining to the precast concrete sills, lentils and copings for referenced project, we respectfully submit the following performance data for your approval:

Mix Design for minimum 28 day compressive strength:

6.00 sacks of Type III Cement - Lone Star: 564 lbs.
Fine Aggregate - Natural Sand - Roanoke Sand & Gravel: 1200 lbs.
Coarse Aggregate - Natural Gravel 3/4' Roanoke Sand & Gravel: 1,890 lbs.
Water: 30.1 gals.
Admixture - Master Builders: 4.5 ozs.
Slump: 3.5
Water/Cement Ratio: 5.00
Air: 5.5%
Compressive Strength at 28 days: 4290 lbs. p.s.i.

Materials:

Cement shall conform to ASTM C-150, Type III.
Aggregates shall conform to requirements of ASTM C-33.
Water shall be clean and potable.
Admixture shall conform to ASTM C-260

1

Precast concrete units shall be cast in steel form molds and shall be aired by approved methods to assure conformance to physical property requirements.

Reinforcement shall be as per engineer's drawings and will be in conformance with the minimum requirements of ACI 318.

Very truly yours,

SAL PICONE & SONS, INC.

Vito Picone

Vito Picone
President

VP:ljl

G. & W. H. CORSON

INCORPORATED

America's Oldest Lime Manufacturers

PLYMOUTH MEETING, PENNSYLVANIA

19462

JOB: Nuclear Power Plant, Unit #1
Shoreham, New York

OWNER: Long Island Lighting Co.

MASONRY CONTRACTOR: South Shore Brick Masons

This is to certify that CORSON'S MIRACLE LIME, as manufactured by G. & W. H. CORSON, INC., Plymouth Meeting, Pennsylvania, passes the A.S.T.M. Specification C207, Type N and Type S, and the Federal Specification SS-L-351, Type M and Type F.

Very truly yours,

G. & W. H. CORSON, INC.

Oliver L. Smith
Vice President - Sales

OLS/mbg

STATE OF PENNSYLVANIA)
)SS
COUNTY OF MONTGOMERY)

Sworn and subscribed before me

this 2nd day of March, 1976

1

Mason Mix, Inc.

BOARD OF STANDARDS & APPEALS
LIME APPROVAL 544-43 S.M.

The Miracle Lime Dry Mix

180-57 LIBERTY AVENUE
JAMAICA, NEW YORK 11433
GL 4-3030

March 1, 1976

South Shore Masons
60 Redington St.
Bayshore, L. I. N. Y.

Re: LILCO, Nuclear Power Station, Shoreham N. Y.

Attention: Mr. E. Long

Dear Sir:

This is to certify that the sand to be used on the above mentioned project is a fresh water washed mason sand complying with A.S.T.M. C-144 and approved by the Board of Standards and Appeals # 595 - 62 S.M. It is also approved by the New York State Department of Public Works Sand Approval # 62 - P - 19.

Very truly yours,

Richard Keegan

Richard Keegan
President
Mason Mix, Inc.

SWORN TO BEFORE ME THIS
1st DAY OF March, 1976

William M. Ferro

WILLIAM M. FERRO
Notary Public, State of New York
No. 30-[illegible]
Qualified in Nassau County
Commission Expires March 30, 19__

1

LONE STAR INDUSTRIES, INC.
Cement & Construction Materials Group

Nazareth Plant
P. O. Box 270
Nazareth, Pa. 18064
(215) 759-4210

March 9, 1976

South Shore Brick Masons
80 Reddington Street
Day Shore
Long Island, New York 11706

Attention: Mr. Walter Hawrys

Gentlemen:

This is to certify that the Type I and Type II Portland Cements, shipped to you from Lone Star Industries, Inc. Nazareth Cement Plant conform in all respects to A.S.T.M. C-150-74 Specifications for Portland Cements.

It is undersoood that you will be using the cement at the Shoreham, New York Nuclear Power Station.

Yours very truly,

LONE STAR INDUSTRIES, INC.

J. A. Mosebach

J. A. Mosebach
Quality Supervisor

JAM/aks

AREA CODE 516
924-4100

ROANOKE MARBRO SAND & GRAVEL CORP.

Miller Place Rd.
P. O. Box 23
Middle Island, L. I., N. Y. 11953

A.S.T.M. SPECIFICATION MATERIALS

May 31, 1977

Mr. Walter Hawrys
South Shore Brick Masons
80 Reddington St.
Bay Shore, N.Y. 11706

Dear Sir:

In reference to the sand for the Shoreham Nuclear Power Station at Shoreham, N.Y. this is to certify that our sand is in compliance with specifications as set forth in ASTM C-144.

Very truly yours

ROANOKE MARBRO SAND & GRAVEL CORP.

Robert Marino V.P.

Robert Marino, V.P.

RM/j

South Shore Brick Masons
INCORPORATED
80 REDINGTON STREET • BAY SHORE, NEW YORK • 11706

June 1, 1977

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R. L. Cusick
Resident Manager

Gentlemen:

Re: Shoreham Nuclear Power Station Unit No. 1
Long Island Lighting Company
W. O. 48923 (CC-5-508)
J.O. No. 11600.03

Attached herewith is certification from Roanoke Sand & Gravel that the sand to be used on the above captioned project complies with ASTM C-144.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

Walter J. Hawrys

WJH:fr
Enc.

(516) 665 - 5800

CODE 516
[illegible]

AREA CODE 516
924-41[illegible]

ROANOKE MARBRO SAND & GRAVEL CORP.

Miller Place Rd.
P. O. Box 23
Middle Island, L. I., N. Y. 11953

A.S.T.M. SPECIFICATION MATERIALS

Mar. 9, 1976

Mr. Walter Hawrys
South Shore Brick Masons
80 Paddington St.
Bay Shore, N.Y. 11706

Dear Sir:

In reference to the sand for the Shoreham Nuclear Power Station at Shoreham, N.Y., this is to certify that our sand is in compliance with specifications as set forth in ASTM C-404.

Very truly yours

ROANOKE MARBRO SAND & GRAVEL CORP.

Robert Merino

Robert Merino, V.P.

RM/j

Sylvia Kogel

SYLVIA KOGEL
Notary Public, State of New York
52-[illegible] - Suffolk County
Term Expires March 30, 1977

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

August 10, 1978

South Shore Brick Masons, Inc.
80 Reddington Street
Bayshore, New York, 11606

RE: LILCO Nuclear Power Sta.
Shoreham, New York

Gentlemen:

This is to certify that the Waylite Hollow Load-Bearing Masonry Units supplied to the above job conform to the following Fire-Ratings.

8x8x18 Waylite Hollow Load-Bearing Masonry Unit	Two-Hour Fire Rating
12x8x18 Waylite Hollow Load-Bearing Masonry Unit	Three-Hour Fire Rating

---

SMITHTOWN CONCRETE PRODUCTS CORP.

By Neal L. Seewack
Neal L. Seewack

NLS:mt

State of New York
County of Suffolk

Sworn to before me this

____ day of ________ 1978.

SMITHTOWN CONCRETE PRODUCTS CORPORATION
*Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815*

FILE CODE [illegible]
NAME [illegible]
DATE 6/[illegible]/80

June 11, 1980

South Shore Brick Masons
50 [illegible] Ave.
[illegible], NY 1170[illegible]

RE: Shoreham Nuclear Plant
Battery Room
Elevation 63

Gentlemen:

This is to certify that the following Waylite Masonry Units to be supplied to the above referenced job conform to the listed specifications.

Description of Item	A.S.T.M. Specification
8x4x16 75% Solid Waylite Masonry Unit	C-145 Type 1 Grade S

Very truly yours,

BY [signature]
Paul E. [illegible]

[illegible]

State of New York
County of Suffolk

Sworn to me this

[illegible] day of June 1980.

[signature]

XTRA

South Shore Brick Masons / 30 [illegible] STREET • BAY SHORE, NEW YORK • 11706
INCORPORATED

May 27, 1976

Stone & Webster Engineering Corporation
P.O. Box 604
Wading River, New York 11792

Gentlemen:

Re: Shoreham Nuclear Power Station Unit
Furnish & Erect Concrete Masonry
W.O. 48923 (CC-5-503)
J.O. No. 11600.03
Long Island Lighting Company

We are delivering this day, the following physical samples for your approval:

3 pcs.	Standard Galvanized Truss Mesh
3 pcs.	¼" ø x 8" Galvanized Cavity Wall Ties
3 pcs.	1¼ x 16 Ga. x 6" Galvanized Kalman Anchors
3 pcs.	Galvanized Corrugated Wall Ties
3 pcs.	1" x 16 Ga. x 5½" Galvanized Dovetail Anchors
3 pcs.	1¼" x ¼" x 30" Galvanized Rigid Anchors + 3" bends

We are also submitting certification from Hohmann & Barnard, Inc.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

[signature]

Walter J. Hawrys

WJH:fr

RECEIVED:

Date 5/26/76

Stone & Webster Engineering Corporation

By K.C. [signature]

1

(516) 665-[illegible]

HOHMANN & BARNARD, Inc.

Manufacturers and distributors of building specialties and construction accessories since 1933

Corporate and engineering offices:
THE HOHMANN BUILDING
30 Rasons Court
Hauppauge, L. I., New York 11787

Telephone: (516) 234-0600
(212) 651-0500

March 9, 1976

South Shore Brick Masons
80 Roddington Street
BayShore, New York

Reference: Shoreham Nuclear Power Station #1

Gentlemen:

This is to certify that the following material we propose to furnish in the above mentioned project, will conform to plans and specifications when so required:

Standard Galvanized Truss Mesh
¼" Ø x 8" Galvanized Cavity Wall Ties
1¼" x 16 Ga. x 6" Galvanized Kalman Anchors
Galvanized Corrugated Wall Ties
1" x 16 Ga. x 5½" Galvanized Dovetail Anchors
1¼" x ¼" x 30" Galvanized Rigid Anchors
+ 3" bends

Very truly yours,

HOHMANN & BARNARD, INC.

Frank Laferrera

Frank Laferrera
Sales Executive

FL:jm

STATE OF NEW YORK
COUNTY OF SUFFOLK

Sworn to before me this 9th day of March, 1976.

ALFRED A. HALA
Notary Public, State of New York
Suffolk County
Term Expires March 30, 1977

Alfred A. Hala

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JO NUMBER	DATE
11600.50	10-26-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390

FILE CODE SH1-390.900
NAME H. Celalue
DATE 11/8/79

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 10-26-79 THE EAST WALL OF THE DEMINERALIZER AREA ON EL 159'9" WAS EXTENDED 3' NORTH & 3' SOUTH WITH A 2' WIDE SOLID HI DENSITY BLOCK QC INSPECTION WAS PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390. SAMPLE MC 327 WAS TAKEN. 1-14-10-9-8-7

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
R. Chambers	10-26-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	10/9/79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 FILE CODE SH1-390.900 NAME H Celebra DATE 11/8/79

DWG. NO OR P.O	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 10/19/79, CONSTRUCTION WAS COMPLETED ON HOLLOW BLOCK WALLS FOR M.G. ROOMS ON THE SOUTH SIDE OF SLABS 50'9" & 61'. QC INSPECTION VERIFIED THAT WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SH1-390. SAMPLE CUBES MC 626 WERE TAKEN.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible signature]	10-19-79	OF

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

		JOB NUMBER	DATE
		11600.50	10-12-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390

FILE CODE SH1-390.900
NAME [illegible]
DATE 11/8/79

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 10-12-79 CONSTRUCTION WAS CONTINUED ON HOLLOW BLOCK WALLS ON EL 50'9" & 161' (SOUTH SIDE) FOR M.G. ROOMS. SAMPLES TAKEN WERE MC 622 MC 623 & MC 624. QC INSPECTION WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SPEC SH1-390. WORK ON THE WALLS WAS APPROX 85% COMPLETED.

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
[illegible]	10-12-79	

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	10-5-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 FILE CODE SH1-390, 900 NAME A. Celebro DATE 11/3/79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 10-5-79 WORK WAS PERFORMED AS ITEMIZED BELOW QC INSPECTIONS WERE PERFORMED. WORK WAS PERFORMED IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390. SAMPLES TAKEN WERE MC 617, MC 618, MC 619, CGC 620 & MC 621. WALLS WORKED ON WERE THE M.G. ROOMS ON THE SOUTH SIDE OF SLABS EL 50'9" & 61'. WORK ON THESE WALLS WERE APPROX 50% COMPLETED.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible signature]	10-5-79	OF

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	6-22-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 E&DCR F-6865-J FILE CODE SH1-390 NAME A. Celeb[illegible] DATE 7-17-79

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 6-22-79 SOUTH SHORE MASON CONTINUED WORK ON THE SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS TO THE FINAL EL 147'9". BLOCK-OUTS, AS NEEDED, WERE LEFT FOR COMPLETION AT A LATER DATE. RANDOM QC INSPECTIONS WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390 SAMPLE CUBES # MC ~~606~~, 602 A1 & 603 A-F ~~& 608~~ A1 WERE CAST.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
R. Thompson	6-22-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

A-1240.2

JOB NUMBER	DATE
11600.50	6-15-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 E&DCR F-6865-J FILE CODE SH1-390 NAME H. Cilidro DATE 7-17-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 6-15-79 SOUTH SHORE MASONS CONTINUED WORK ON THE SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS, TO EL APPROX. 145. RANDOM QC INSPECTIONS WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390. SAMPLE CUBES # 598, 599 & 601-A-F WERE CAST.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
C. Thompson	6-15-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	6-8-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 E&DCR F-1865-J FILE CODE SH1-390 NAME DATE

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 6-8-79 SOUTH SHORE MASONS CONTINUED WORK ON THE SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS TO EL 142'. RANDOM QC INSPECTIONS WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE ~~IN~~ AT MANNER IN CONFORMANCE WITH SH1-390. SAMPLE CUBES # MC 594 & 595-A-F WERE CAST.

QUALITY CONTROL INSPECTOR/ENG.	DATE	PAGE
R. Thompson	6-8-79	1 OF 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	6-1-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH 1-390 E&DCR F-1865-J FILE CODE SH1-390 NAME H. Calabro DATE 7-17-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 6-1-79 SOUTH SHORE MASONS CONTINUED WORK ON THE SOLID HI DENSITY WALLS ENCLOSING THE PHASE SEPARATOR TANKS TO EL ≈ 139.5' RANDOM INSPECTIONS WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390. SAMPLE CUBES # 591 & 592 AF, WERE CAST.

QUALITY CONTROL INSPECTING ENG.	DATE	PAGE
R. Thompson	6-1-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

Q.C. NUMBER	DATE
11B.30.50	5-25-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH1-390 E&DCR F-6865J

FILE CODE SH1-390
NAME H. Calabro
DATE 7-17-79

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 5-25-79, SOUTH SHORE MASONS CONTINUED WORK ON THE SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS TO EL ~ 137.
			RANDOM QC INSPECTIONS WERE PERFORMED. WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390.
			SAMPLE CUBES # MC 587, 589 & 590 WERE CAST.

QUALITY CONTROL INSPECTOR/ENG.	DATE	PAGE
R. Thompson	5-25-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	5-18-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390 FILE CODE SH 1-390 NAME H.R.R. DATE 6-7-79

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 5-18-79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 583 584 & 586. THE SOLID HI DENSITY BLOCKS FOR ENCLOSURE OF THE PHASE SEPARATOR TANKS WERE CONSTRUCTED TO EL 134

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible signature]	5-18-79	1 OF 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	5-11-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH 1-390 FILE CODE SH1-390 NAME H. Colobro DATE 5-18-79

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 5-11-79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 576, 578 & 581: A-F THE MASONRY BLOCK WALLS TO ENCLOSE THE PHASE SEPARATOR TANKS WERE CONSTRUCTED TO EL 131.'

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
A. Thompson	5-11-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	5-4-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH 1-390 FILE CODE SH 1-390 NAME H. Cellber DATE 5-18-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			During The Week Ended 5-4-79 The Work Accomplished By South Shore Masons Is Itemized Below. QC Inspections Were Performed & All Work Was Done In A Good Workmanlike Manner In Compliance With Spec SH1-390. The Sample Cubes That Were Made Were MC# 574 A to F. The Masonry Block Walls For The Phase Separator Tanks Were Constructed From EL 126'9" To EL That Varied From EL 127'6" To EL 131.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
A. Thompson	5-4-79	1 of 1

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	4-27-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH 1-390 FILE CODE SH 1-390 NAME A Cobden DATE 5-18-79

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 4-27-79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 568 & 570-A-F THE BLOCK WALL 16' W/O ℄ FROM 48'9" TO 56'9" N/O ℄ WAS CONSTRUCTED FROM EL 90.5' TO 97.5' THE BLOCK WALL 30' S/O ℄ FROM 13' TO 26' W/O ℄ WAS CONSTRUCTED FROM EL 131' TO 141'

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
R. Skompra	4-27-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	4-13-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT I	SH 1-390

FILE CODE SH1-390
NAME H Calabro
DATE 5-18-79

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 4-13-79 SOUTH SHORE MASONS LAID BLOCK IN ELEVATOR DOOR OPENINGS AT ALL LEVELS. SAMPLE CUBES MC 564 WERE MADE. QC SURVEILLANCE INSPECTIONS CONFIRMED THAT WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SH1-390.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible]	4-13-79	1 of

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	4-6-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR	SH 1-390

FILE CODE SH 1-390
NAME H. Calabro
DATE 5-18-79

CAT. I

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 4-6-79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 560 & 562-A-F
			THE SOLID HI DENSITY WALL 24' % ℄ FROM 31.5' TO 42' % ℄ WAS CONSTRUCTED FROM EL 133' TO COMPLETION AT EL 145.5

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
C. Stimpson	4-6-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600-50	3-30-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390

FILE CODE SH 1-390
NAME A. Colob[illegible]
DATE 4-17-79

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)

DURING THE WEEK ENDED 3/30/79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 555, 556 & 558.

THE SOLID HI DENSITY WALL 40' N/o ℄ FROM 19' TO 26' W/o ℄ WAS CONSTRUCTED TO EL 145'.

THE SOLID HI DENSITY WALL 24 S/o ℄ FROM 31.5' TO 42' E/o ℄ WAS CONSTRUCTED TO EL 133

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
R. Thompson	3-30-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	3-23-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390 FILE CODE SH 1-390 NAME [illegible] DATE 4-17-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 3/23/79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 550, 551, 552 & 553 SOLID HI DENSITY BLOCK WALLS TO THE NORTH, EAST & SOUTH OF THE WEST HEAT EXCHANGER WERE CONSTRUCTED TO THE FINISH EL. OF 50.' THE SOLID HI DENSITY BLOCK WALL, 40' N/o ℄ FROM 19' TO 26' W/o ℄ WAS CONSTRUCTED TO EL 140'.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible]	3-23-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	3-16-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390 FILE CODE SH1-390 NAME H. [illegible] DATE 4-17-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 3/16/79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 545, 546, 547, 548 & 549. THE PIPE CHASE WALL 30' % ℄ FROM 15' TO 24' W/O ℄ WAS COMPLETED TO EL 170'5". THE SOLID HI DENSITY WALL AT COLUMN 4 WAS ERECTED FROM EL 40' TO 48' THE NORTH EAST & SOUTH WALL AROUND THE WEST HEAT EXCHANGER WERE ERECTED FROM EL 40' TO 47'

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible signature]	3-16-79	1 OF 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	3-9-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390 FILE CODE SH 1-390 NAME H. Cabilia DATE 3-20-79

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 3-9-79, THE WORK ACCOMPLISHED BY SOUTH-SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 541, 542 & 544. THE WALLS NORTH, WEST & SOUTH OF THE EAST HEAT EXCHANGE WERE COMPLETED FROM EL 45' T 50'. THE SOUTH WALL OF THE PIPE CHASE AT AZIM. ~~#~~ 45° WAS CONSTRUCTED FROM EL 155' TO 162'

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
V. Thompson	3-9-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	3-2-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	REACTOR CAT. I	SH 1-390 FILE CODE SH 1-390 NAME [illegible] DATE 3-20-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 3-2-79 THE WORK ACCOMPLISHED BY SOUTH SHORE MASONS IS ITEMIZED BELOW. QC INSPECTIONS WERE PERFORMED & ALL WORK WAS DONE IN A GOOD WORKMANLIKE MANNER IN COMPLIANCE WITH SPEC SH1-390. THE SAMPLE CUBES THAT WERE MADE WERE MC# 535, 536 & 538 & 540. A SOLID HI DENSITY WALL WAS CONSTRUCTED 19' TO 26' W/O ℄, 40' N/O ℄ FROM EL 129' TO 131'. CLOSING OF THE WALL OPEN S/O PHASE SEPARATOR TANK WAS COMPLETED FROM EL 137' TO 145.5'. THE SOLID HI DENSITY WALLS NORTH WEST & SOUTH OF THE EAST HEAT EXCHANGE WAS BUILT FROM EL 40' TO ~~46~~ 45' AR

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
[illegible]	3-2-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	2-23-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	AS INDICATED BELOW CAT. I	SH1-390 FILE CODE SH1-390 NAME H. Celebre DATE 3-20-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 2-23-79 THE FOLLOWING WORK WAS ACCOMPLISHED BY SOUTH SHORE MASONS:- CLOSURE OF THE OPENING IN THE LINE 2 WALL (22' TO 30' S/O "A") WAS COMPLETED. IN THE REACTOR THE OPENING S/O THE PHASE SEPARATOR TANK WAS CLOSED FROM EL 131 TO 137. THE SOUTH WALL OF THE PIPE CHASE AT EL 150 WAS CONSTRUCTED FROM EL 150' TO 155' (AZIM # 45°) RANDOM QC INSPECTIONS WERE PERFORMED & NO VIOLATIONS WERE FOUND. SAMPLE CUBES # MC532, MC533 & MC534 WERE MADE.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
C. Thompson	2-23-79	1 OF 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	2-16-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	AS INDICATED BELOW CAT I & II	SH1-390 FILE CODE SH1-390 NAME [illegible] DATE 2/26/79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
CAT I			ON EL 112'9" SLAB IN THE REACTOR SECONDARY TWO WALL OPENINGS ON COL 5 LINE AT AZIM ~~±~~ 260° & 285°, WERE COMPLETELY CLOSED WITH 3' SOLID HI DENSITY BLOCK WALLS.
CAT II			IN THE TURBINE BLDG ON SLAB 15 THE WALL OPENING IN LINE 4 5/8 FROM ~~±~~ 24' TO 28' 5/0 LINE "A" WAS FULLY CLOSED WITH A 3' SOLID HI DENSITY BLOCK WALL. THE WALL OPENING ON LINE 2 FROM 22' TO 30' 5/0 LINE A WAS CLOSED FROM EL 15 TO 22 WITH A 3' SOLID HI DENSITY BLOCK WALL.
			THE ABOVE WAS COMPLETED DURING THE WEEK ENDED 2-16-79. QC INSPECTION WAS PERFORMED & NO VIOLATION OF SPECS WAS FOUND. SAMPLE CUBES

QUALITY CONTROL INSPEC./ENG.	DATE
D. Thompson	2-16

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	2-16-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
BLOCK MASONRY	As Indicated On Pge 1	SH 1-390

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			# MC 525 - 526 - 529 + 530 Were Made

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
[signature]	2-16-79	2 of 2

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	2-9-79

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
Block Masonry	Reactor	SH1-390

FILE CODE SH1-390
NAME H Celeba
DATE 2-15-79

CAT. II

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			During The Week Ended 2-9-79 The Following Work Was Accomplished By South Shore Brick Masons:-
			% The Phase Separator Tank On El 126'9" The Wall Opening Was Blocked Up With A 1'6" Thick Solid Hi Density Block Wall To An Aprox El Of 131'. Work Was Discontinued Pending A Decision On Placement Of A Sleeve.
			Work Was Started On Closure Of 2 Wall Openings In The C.S. Line Wall At Azim. ~~#~~ 260° & 285° On Slab El 112'9"
			Visual QC Inspection Was Performed & No Violation Of Specs Or Procedure Was Found.
			Sample Cubes # MC 522 & MC 523 Were Made.

QUALITY CONTROL INSPECTOR	DATE	PAGE
C. Stanaham	2-9-79	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11615.50	12-29-78

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	REACTOR-ELEVATOR SHAFT MACHINE ROOM.	SH1-390 CAT I.

FILE CODE SH1-390
NAME H Calabro
DATE 1-8-79

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 12-29-78 BLOCK WALLS FOR THE ELEVATOR MACHINE ROOM WERE COMPLETED. VISUAL INSPECTIONS WERE PERFORMED. WORK WAS COMPLETED IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SPECS. LESS THAN 10 CU. FT. OF MORTAR WAS MIXED EACH WORKING DAY & NO SAMPLE CUBES WERE CAST.

QUALITY CONTROL INSPECTOR	DATE	PAGE
[illegible]	12-29-78	1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12-22-78

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	REACTOR ELEVATOR SHAFT & MACHINE ROOM.	SH1-390 CAT I

FILE CODE SH1-390
NAME H. Celebro
DATE 1-8-79

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 12-22-78 MASONRY BLOCK WALLS WERE CONSTRUCTED UP TO EL 175, & WORK WAS STARTED ON THE MACHINE ROOM. DURING QC INSPECTIONS, IT WAS NOTED THAT WORK WAS PERFORMED IN A GOOD WORKMANLIKE MANNER IN CONFORMANCE WITH SH1-390. SAMPLES MC 506, 508, 510 & CGC 507 & 509 WERE CAST. COARSE AGGREGATE #89 WAS DELIVERED SIEVE ANALYSIS # CA-89-6 RA WAS PERFORMED BEFORE COARSE GROUT WAS MIXED.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible]	12-22-78	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER: 11600-53
DATE: 12-15-78

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	REACTOR - ELEVATOR SHAFT CAT I	SH1-390 FILE CODE SH1-390 NAME H. Calabro DATE 1-2-79

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 12-15-78 MASONRY BLOCK WALLS WERE COMPLETED FROM EL 78 TO EL 120. QC INSPECTION WAS PERFORMED DAILY & NO VIOLATION OF SPECS OR PROCEDURE WAS FOUND. ALL WORK WAS PERFORMED IN A GOOD WORKMAN-LIKE MANNER. MORTAR & ~~GROUT~~ GROUT SAMPLES (MC 502 MC 503 MC 504 MC 505) WERE CAST. AGGREGATE #89 WAS SAMPLED & TESTED. TEST # CA 89-6 WAS SATISFACTORY.

QUALITY CONTROL INSPEC./ENG.: R. Thompson
DATE: 12-15-78
PAGE 1 OF 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.60	12-8-78

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	REACTOR ELEVATOR SHAFT	SH 1-390 CAT I

FILE CODE SH1-390
NAME H. Calabro
DATE 12-18-78

DWG NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDED 12-8-78 MASONRY BLOCK WALLS FOR THE ELEVATOR SHAFT WAS COMPLETED UP TO EL 78: QC INSPECTION REVEALED THAT A BOND BEAM AS CALLED FOR ON EL 73 (SEE DWG BCK 291-E) ON THE EAST & ~~WEST~~ SOUTH WALLS WAS OMITTED. DCO 12480 WAS PROCESSED. REWORK WAS SATISFACTORILY COMPLETED DURING THE WEEK & THE BOND BEAM IS IN PLACE AS CALLED FOR. MORTAR AND COURSE GROUT SAMPLES (# MC 496 MC 497 MC 498 MC 499 MGC 500 & MC 501) WERE CAST TO DETERMINE COMPRESSIVE STRENGTH. WORK WAS SATISFACTORILY PERFORMED IN A WORKMANLIKE MANNER

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
[illegible]	12-8-78	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12-1-78

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	REACTOR ELEVATOR SHAFT CAT I	SH1-390 SH1-328

FILE CODE SH1-390
NAME H. Celebis
DATE 12-10-78

DWG. NO OR P.O	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			QC INSPECTION OF THE STRUCTURAL STEEL, THAT MASONRY BLOCK WALLS FOR THE ELEVATOR SHAFT WILL BE INSTALLED TO, REVEALED THAT THEY WERE NOT PROPERLY PAINTED. S&W CONST. WAS IMMEDIATELY NOTIFIED. DURING THE WEEK ENDED 12-1-78 THE STRUCTURAL STEEL REFERRED TO WAS SPOT PRIMED, PRIME COATED & FINISH COATED IN COMPLIANCE WITH SPEC SH1-328, SPS 2.5.1.1-X. QC INSPECTION WAS PERFORMED & THE PROTECTIVE COATING WAS FOUND SATISFACTORY.

QUALITY CONTROL INSPECTOR	DATE	PAGE
[illegible]	12-1-78	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	8-9-77

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY BLOCK	N/A	SH1-390

FILE CODE SH1-390

NAME

DATE

DWG. NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			MORTAR SAND TEST # 11 WAS PERFORMED ON A SAMPLE OF SAND FROM STOCKPILE & WAS SATISFACTORY. SPEC ASTM C144-70. FINE AGGREGATE TEST # FM 1156 WAS SATISFACTORY & MET SPEC. ASTM C 404-70

SIGNATURE OF INSPECTOR	DATE	PAGE
[illegible]	8-9-77	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	7-1-77

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
Masonry Block Walls	N/A	SH1-390

FILE CODE SH1-390
NAME
DATE

DWG NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			Mortar Sand Was Sampled On 6/29. Test # MS ~~#1~~ 10A Was Satisfactory. Sand Met Spec ASTM C144-70 Fine Aggregate #1 Sampled On 6/29 (Test # RM 1124) Was Satisfactory & Met Spec. ASTM C404-70.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
C. [illegible]	7-1-77	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600 50	7-2-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BLDG & CONTROL RM BLDG. CAT I & II	SH 1-390

FILE CODE SH1-390
NAME
DATE

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 7-2-76, SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING:-
CAT I			1- THE ENCLOSURE FOR THE STAIRWAY ON EL 44' IN THE SW CORNER OF THE CONTROL RM BLDG WAS COMPLETED
CAT II			2- THE OIL ROOM WALL IN TURBINE BLDG ON 37'6' SLAB WAS COMPLETED TO EL 54'
CAT I			3- THE SOUTH WALL OF COMPUTER ROOM ON EL 44' WAS ERECTED TO EL 62'
			DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS MORTAR CUBES # MC 142-143-144-147 & FINE GROUT CUBES # FGC 145 & 146 WERE CAST

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
G. Thompson	7-2-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	7-9-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BLDG & CONTROL RM BLDG CAT I & II	SH1-390

FILE CODE SH1-390
NAME
DATE

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 7-9-76 SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING:-
CAT II			1- IN THE TURBINE BLDG. ON SLAB 31'6" EL THE OIL RM WALL WAS COMPLETED.
CAT I			2- IN THE CONTROL RM. BLDG. THE SOUTH WALL OF THE COMPUTER RM ON SLAB 44' WAS ERECTED TO EL 62'.
CAT II			3- ON THE EXTERIOR SECTION OF THE EAST WALL OF THE SWGR IN THE TURBINE BLDG THE FIRST 3 COURSES OF MASONRY BLOCKS WERE LAID.
			ON 7-9-76 MASONRY UNITS WERE DELIVERED WITHOUT PROPER WEATHER PROTECTION. N&D #832 WAS PROCESSED. NO OTHER VIOLATION OF SPECS WAS SEEN. MORTAR CUBES MC# 148-149 & 150 WERE MADE

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
C. Thompson	7-9-76	1 / 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	11-12-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	AS INDICATED CAT I & II	SH1-390 FILE CODE SH1-390 NAME DATE

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARKS
CAT II			OPENING FOR ELEVATION 63 AT THE EAST ELEVATOR WALL WAS COMPLETED IN THE TURBINE BLDG. EXCEPT FOR SMALL AREA OVER LINTEL
CAT I			WALLS PARTIALLY ERECTED IN N.E. CORNER OF CONTROL RM ON EL 63.
CAT II			MACHINE ROOM WALL ERECTED FOR EAST ELEVATOR IN THE TURBINE BLDG.
			WORK CONTINUED ON N LINE WALL IN A.B.R.
			SURVEILLANCE INSPECTION REVEALED THAT CONTRACTOR WAS MIXING MORTAR BY HAND, IN VIOLATION OF SH1-390. DCO # 10112 WAS WRITTEN. NO OTHER VIOLATIONS WERE REVEALED.

QUALITY CONTROL INSPECTOR	DATE	PAGE
G. Sherman	11-12-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.56	7-16-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BLDG & CONTROL RM. BLDG. CAT I & II	SH1-390

FILE CODE S41-390
NAME
DATE

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 7-16-76 SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING -
CAT II			1- IN THE TURBINE BLDG AT EL 31.0', BETWEEN A-B & FROM LINE 12 TO 24' EAST, SPECTRA GLAZE HOLLOW MASONRY WALLS WERE PARTIALLY COMPLETED.
CAT I			2- THE SOUTH WALL OF THE COMPUTER RM ON SLAB 44' OF THE CONTROL ROOM BLDG WAS COMPLETED.
			DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS. THE FOLLOWING SAMPLES WERE TAKEN:- MC# 151-152-153-154 & 155.

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
C. Thompson	7-16-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	7-23-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	AS INDICATED. CAT I & II	SH1-390

FILE CODE SH1-390
NAME
DATE

DWG NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 7-23-76 DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS REVEALED THAT WHEN PARRNON CONSTRUCTED THE INSIDE SECTION OF THE DOUBLE BLOCK WALL ON THE EAST SIDE OF THE SWGR THE FLASHING USED DID NOT COMPLY WITH SH1-390. N&D 876 WAS WRITTEN. INSPECTION ALSO REVEALED THAT SOUTH SHORE MASONS FILLED THE 3 BOTTOM COURSES, OF THE OUTER WALL OF THE SWGR (EAST WALL) WITH MORTAR INSTEAD OF FINE GROUT. N&D 875 WAS WRITTEN. NO OTHER VIOLATIONS WERE REVEALED. SAMPLES TAKEN DURING THE WEEK WERE MC# 156, 157, 158, 160, 162 & FGC 159.
			THE FOLLOWING WORK WAS COMPLETED.
CAT II			1- WALLS IN THE TURBINE BLDG ON EL 31' SLAB.
			2- EAST WALL OF THE SWGR.
CAT I			3- PARTIAL ERECTION OF WALLS IN THE CONTROL ROOM EL 63' BETWEEN 12 - 16/8 & FROM C TO 14' N. of C.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
R. Thompson	7-23-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	7-30-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	CONTROL RM. CAT I	SH1-390

FILE CODE SH1-390 X40.17
NAME
DATE 7-30-76

DWG NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			SOUTH SHORE MASONS DEVOTED THE ENTIRE WEEK TOWARD ERECTION OF MASONRY WALL ON EL 63 BETWEEN LINES 12 TO 16½ FROM C TO 14' N. OF C. RANDOM INSPECTIONS CONDUCTED DAILY DID NOT REVEAL ANY VIOLATIONS OF SPECS. MORTAR CUBE SAMPLES # MC 163, ~~165~~ 164, 166, 167, 170 & FINE GROUT CUBE SAMPLE # FGC 165 WERE TAKEN.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
B. Thompson	7-30-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

J.O. NUMBER	DATE
11600.50	8-6-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	AS INDICATED CAT I & II	SH1-390

FILE CODE ____
NAME ____
DATE ____

FILE CODE SH1-390
NAME ____
DATE ____

DWG. NO. OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 8-6-76, SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING.
CAT II			IN THE CONTROL ROOM BETWEEN 12 TO 16/8 FROM C TO 14' N. OF C AT EL 63' WORK WAS CONTINUED ON BLOCK WALLS. MORTOR CUBE SAMPLES # MC 172 A TO F WERE TAKEN.
			TO ACHIEVE THE REQUIRED FIRE RATING, THE CONTRACTOR FILLED HOLLOW SPACES WITH ZONOLITE INSULATION IN THE FOLLOWING WALLS.
CAT I			1- EL 44' - STAIRWELL S.W. CORNER IN CONTROL ROOM.
CAT II			2- EL 37'6" - SOUTH WALL OF SWGR IN TURBINE BLDG. (PARTIALLY COMPLETED)
			SURVEILANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS.

QUALITY CONTROL INSPECTOR	DATE	PAGE
A. Thompson	8-6-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	8-20-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	AS INDICATED CAT I & II	SH1-390 FILE CODE SH1-390 NAME DATE

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 8-20-76, SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING:-
CAT II			TURBINE BLDG. - ERECTED BLOCK WALL ON 12 LINE FROM V TO 17' S OF V.
CAT I			CONTROL ROOM - STARTED ERECTION OF BLOCK WALL FOR STAIRS IN NW CORNER OF BLDG. EL 23' FILLED HOLLOW SPACES WITH ZONOLITE DURING CONSTRUCTION OF WALL.
			SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS. MORTAR CUBES # 176, 177, 178 & 179 WERE MADE DURING THE WEEK

QUALITY CONTROL INSPECTOR	DATE	PAGE
D. Thompson	8-20-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.56	8-27-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	AS INDICATED CAT I & II	SH1-390 FILE CODE SH1-390 NAME. DATE

DWG NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK END 8-27-76, SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING:-
CAT I			1- CONTROL RM EL 63 - THE MASONRY WALL FOR THE STAIRWAY IN THE NORTH WEST CORNER OF THE BUILDING WAS COMPLETED.
CAT II			2- TURBINE BLDG. - THE WEST WALL OF THE EAST ELEVATOR WAS ERECTED ON EL 15.0' & 37.5'
			IN PREPARATION FOR STARTING MASONRY WALL CONSTRUCTION FOR THE FIRE PUMPHOUSE, THE CONTRACTOR ~~STAR~~ STORED 6" MASONRY UNITS NEAR THE SITE. I COULD NOT FIND ANY CERTIFICATIONS FOR THE BLOCKS. E&DCR F 4633 WAS PROCESSED & VERBAL APPROVAL WAS GIVEN SO THAT CONSTRUCTION PROCEEDED
			RANDOM INSPECTIONS DID NOT REVEAL

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
G. Skomba	8-27-76	1 of 2

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	8-27-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			ANY OTHER VIOLATIONS OF THE SPECS. I MADE MORTAR CUBES # 180, 181 & 182 DURING THE WEEK.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
D. Thompson	8-27-76	2 OF 2

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	6-25-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BLDG & CONTROL RM BLDG. CAT I & II	SH1-390

FILE CODE: SH1-390
NAME:
DATE:

DWG. NO. OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 6-25-76, SOUTH SHORE BRICK MASONS COMPLETED THE FOLLOWING:-
CAT II			1- ERECTION OF WALL IN TURBINE BLDG AROUND THE OIL ROOM AT EL 37'6" WAS COMPLETED TO EL OF APPROX. 44'
CAT I			2- ERECTION OF WALL AT SW CORNER OF THE CONTROL ROOM AT EL 44' WAS COMPLETED TO EL OF APPROX. 48'
CAT II			3- ERECTION OF WALL IN TURBINE BLG FROM LINE 11 TO 9'6" W OF LINE 10 RUNNING 2' SOUTH OF YB WAS COMPLETED FROM EL 15 TO CEILING.
CAT I			4- THE SOUTH WALL OF THE COMPUTER RM IN THE CR BLDG AT EL 44 WAS ERECTED TO APPROX EL 48'.
			DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS.
			MORTAR CUBES # MC 135-137-138-140 & 141 WERE CAST

QUALITY CONTROL INSPECTOR	DATE	PAGE
D. Thompson	6-25-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	6-11-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BLDG & CR BLDG. CAT I & II	SH1-390

FILE CODE SH1-390

NAME

DATE

DWG NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 6-11-76, SOUTH SHORE MASONS COMPLETED THE FOLLOWING:-
CAT II			1-CONTINUED ERECTION OF THE EAST ELEVATOR WALL TO ELEVATION 63'.
CAT II			2-COMPLETED ERECTION OF LINE 11 WALL TO EL 37'6"
CAT II			3-STARTED ERECTION OF THE WEST ELEVATOR WALL: TO EL 16.
CAT I			4-LAYED 1 COARSE OF BLOCKS FOR THE SOUTH WALL OF THE COMPUTER EQUIPMENT RM AT EL 45'.
CAT I			5-LAYED 1 COARSE OF BLOCKS FOR THE NORTH & EAST WALLS OF THE STAIR AREA IN THE SW CORNER OF THE CONTROL RM BLDG AT EL 44'
			DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS FOR CONSTRUCTION & MIXING OF MORTAR. HOWEVER ON 6-9-76 ONE LOAD OF ½ SIZE BLOCKS WERE FOUND WITH MOSS ON THEM. CONTRACTOR WAS

QUALITY CONTROL INSPECTOR	DATE	PAGE
R. Thompson	6-11-76	1 of 2

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600 56	6-11-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DIRECTED TO RETURN THE SHIPMENT. THE BLOCKS WERE REMOVED FROM THE SITE IMMEDIATELY. MORTAR CUBES # MC 122 - MC 123 MC 125 MC 128 & MC 129 WERE MADE THIS WEEK.

QUALITY CONTROL INSPECTOR/ENG.	DATE	PAGE
D. Thompson	6-11-76	2 of 2

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600-50	6-4-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY	TURBINE BUILDING & CR BLDG. CAT I & II	SH1-390

FILE CODE SH1-390
NAME
DATE

DWG. NO OR P.O.	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			DURING THE WEEK ENDING 6-4-76 SOUTH SHORE MASONS COMPLETED THE FOLLOWING WORK:-
			1- CONTINUED ERECTION OF THE EAST ELEVATOR WALL. TO ELEVATION APPROX 44' - CAT II
			2- BROKE DOWN A SECTION OF THE EAST WALL OF BATTERY RM & REBUILT THE WALL TO INCORPORATE CHANGES. THAT WERE REQUIRED. CAT I
			DAILY SURVEILLANCE INSPECTIONS ON A RANDOM BASIS DID NOT REVEAL ANY VIOLATION OF SPECS. MORTAR CUBES # MC119 - MC120 & MC121 WERE MADE DURING THIS WEEK.

QUALITY CONTROL INSPEC/ENG.	DATE	PAGE
R. Thompson	6-4-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

J.O. NUMBER	DATE
11600.50	1-2-76

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM & BATT. RMS ⓒ LINE ; 12 to 8 LINE FA-2C-7 CAT. I	SH1-340A

FILE CODE ~~SH1-340~~ SH1-340

NAME Russo

DATE 1-8-76

DWG NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)

PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.

1. 15 GALS OF WATER
2. 12 SHOVELS OF SAND
3. 1 BAG OF PORTLAND CEMENT
4. 1 BAG OF LIME
5. 12 SHOVELS OF SAND
6. 1 BAG OF PORTLAND CEMENT
7. 12 SHOVELS OF SAND

THEN ANY ADDITIONAL WATER FOR CONSISTENCY.

MATERIAL USED:

LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)

LONE STAR IND. NAZARETH, PA.

HYDRATED LIME, TYPE S-ASTM C-207 WARNER CO. (50#)

SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.

2 SETS OF MORTAR CUBES WERE CAST.

NOTED JAN 09 1976

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
R. H. [illegible]	1-2-76	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM : BATT RMS. LINE 2 12 TO 8 LINE FA-20'7 CAT. I	SH1-390A

FILE CODE: X46-660A SH1-390
NAME [signature]
DATE 1-8-76

DWG. NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
			① 15 GALS OF WATER
			② 12 SHOVELS OF SAND
			③ 1 BAG OF PORTLAND CEMENT
			④ 1 BAG OF LIME
			⑤ 12 SHOVELS OF SAND
			⑥ 1 BAG OF PORTLAND CEMENT
			⑦ 12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY.
			MATERIAL USED:
			LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)
			LONE STAR IND. NAZARETH, PA.
			HYDRATED LIME, TYPE S ASTM C-207 WARNER CO. (50#)
			SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.
			2 SETS OF MORTAR CUBES WERE CAST.
			NOTED JAN 09 1976

QUALITY CONTROL INSPECTOR	DATE	PAGE
[illegible]	12-31-75	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM Ⓒ LINE 5 12 TO 5 LINE PHASE 4 CAT I	SH1 - 370A SH1 - 370 FILE CODE ~~XHi-Wo-K~~ NAME [illegible] DATE 1-8-76

IR NUMBER [illegible] DATE 12 30 75

DWG NO OR PO	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
		①	15 GALS OF WATER
		②	12 SHOVELS OF SAND
		③	1 BAG OF PORTLAND CEMENT
		④	1 BAG OF LIME
		⑤	12 SHOVELS OF SAND
		⑥	1 BAG OF PORTLAND CEMENT
		⑦	12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY. MATERIAL USED: LONE STAR PORTLAND CEMENT TYPE II DARK (94#) LONE STAR IND. NAZARETH, PA. HYDRATED LIME, TYPE S ASTM C-207 WARNER CO. (50#) SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y. 2 SETS OF MORTAR CUBES WERE CAST.

NOTED JAN 09 1976

QUALITY CONTROL INSPEC/ENG	DATE	PAGE
[illegible]	[illegible]	[illegible]

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12-30-75

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM CAT I	SH1-390A

SH1-390
FILE CODE X.4
NAME
DATE 1-5-76

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
		1	15 GALS OF WATER
		2	12 SHOVELS OF SAND
		3	1 BAG OF PORTLAND CEMENT
		4	1 BAG OF LIME
		5	12 SHOVELS OF SAND
		6	1 BAG OF PORTLAND CEMENT
		7	12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY.
			MATERIAL USED:
			LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)
			LONE STAR IND. NAZARETH, PA.
			HYDRATED LIME, TYPE S ASTM C-207 WARNER Co. (50#)
			SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.
			2 SETS OF MORTAR CUBES WERE CAST.

QUALITY CONTROL INSPECTOR	DATE	PAGE

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12 24 75

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM CAT. I	SH1-390A SH1-390 FILE CODE X46. AT NAME DATE 1-5-76

DWG. NO OR P.O	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
		1	15 GALS OF WATER
		2	12 SHOVELS OF SAND
		3	1 BAG OF PORTLAND CEMENT
		4	1 BAG OF LIME
		5	12 SHOVELS OF SAND
		6	1 BAG OF PORTLAND CEMENT
		7	12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY.
			MATERIAL USED:
			LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)
			LONE STAR IND. NAZARETH, PA.
			HYDRATED LIME, TYPE S ASTM C-207 WARNER CO. (50#)
			SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.
			2 SETS OF MORTAR CUBES WERE CAST.

QUALITY CONTROL INSPECTOR/ENG	DATE	PAGE
[illegible]	12 24 75	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12 23 75

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM CAT. I	SH1-340A

FILE CODE X40 SH1-390
NAME Derra
DATE 1-5-76

DWG. NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
			① 15 GALS OF WATER
			② 12 SHOVELS OF SAND
			③ 1 BAG OF PORTLAND CEMENT
			④ 1 BAG OF LIME
			⑤ 12 SHOVELS OF SAND
			⑥ 1 BAG OF PORTLAND CEMENT
			⑦ 12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY.
			MATERIAL USED:
			LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)
			LONE STAR IND. NAZARETH PA.
			HYDRATED LIME, TYPE S ASTM C-207 WARNER CO. (50#)
			SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.
			2 SETS OF MORTAR CUBES WERE CAST.

QUALITY CONTROL INSPECTOR	DATE	PAGE
[illegible]	[illegible]	1 of 1

STONE & WEBSTER ENGINEERING CORPORATION 12 - - 1

QUALITY CONTROL INSPECTION REPORT

JOB NUMBER	DATE
11600.50	12-22-75

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MORTAR STRENGTH	CONTROL ROOM CAT I	SH1-390A SH1-390 FILE CODE X-40.SF NAME R. Serra DATE 1-5-76

DWG NO OR P.O.	ITEM	QTY	DESCRIPTION(S) AND INSPECTION REMARK(S)
			PROCEDURE FOLLOWED FOR MIXING BLOCK MORTAR IN THE CONTROL ROOM.
		1	15 GALS OF WATER
		2	12 SHOVELS OF SAND
		3	1 BAG OF PORTLAND CEMENT
		4	1 BAG OF LIME
		5	12 SHOVELS OF SAND
		6	1 BAG OF PORTLAND CEMENT
		7	12 SHOVELS OF SAND
			THEN ANY ADDITIONAL WATER FOR CONSISTENCY.
			MATERIAL USED:
			LONE STAR PORTLAND CEMENT, TYPE II DARK (94#)
			LONE STAR IND. NAZARETH, PA.
			HYDRATED LIME, TYPE S - ASTM C-207 WARNER CO. (50#)
			SAND - SUFFOLK MIXING - PORT JEFFERSON, N.Y.
			2 SETS OF MORTAR CUBES WERE CAST.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[illegible]	[illegible]	[illegible]

STONE & WEBSTER ENGINEERING CORPORATION

QUALITY CONTROL
INSPECTION REPORT

JOB NUMBER	DATE
11600.50	11-10-75

SYSTEM(S) OR PART(S) NAME	LOCATION(S)	REFERENCE DOCUMENT(S)
MASONRY Sample walls	TURBINE YARD	SH1-390 22

DWG NO OR P.O	ITEM	QTY.	DESCRIPTION(S) AND INSPECTION REMARK(S)
			VISUAL INSPECTION WAS PERFORMED ON BOTH 8 & 6" WALLS SUPPLIED BY THE MASONRY CONTRACTOR. CONSTRUCTION & WORKMANSHIP WAS FOUND TO BE SATISFACTORY.

QUALITY CONTROL INSPEC./ENG.	DATE	PAGE
[signature]	11-10-75	1 of 1

South Shore Brick Masons / 50 HEDINGTON STREET • BAY SHORE, NEW YORK • 11706
INCORPORATED

December 8, 1976 2

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R.L. Cusick

Re: Shoreham Nuclear Power Station Unit No. 1
Long Island Lighting Company
W.O. 48923 (CC-5-308)
J.O. No. 11600.03
Purchase Order No. 310756

Gentlemen:

Enclosed find Test Reports from Haller Testing Laboratories for Report No. P-76-4451.

8 x 4 x 16 100% Solid Concrete -Hi-Density Block

Very truly yours,

South Shore Brick Masons, Inc.

Ed Long

Edwin Long VP

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 11 1977
FIELD QUALITY CONTROL
By Robert A. Carvel

SMITHTOWN CONCRETE PRODUCTS CORPORATION
*Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815*

December [illegible], 1976

South Shore Brick Masons, Inc.
80 Weddington Street
Bay Shore, New York, 11706

Re: LILCO Nuclear Power Station
Shoreham, New York

Attention: Mr. Walter Kamps

Gentlemen:

Enclosed please find Test Reports from Muller Testing Laboratories for:

1) 8x4x16 - 100% Solid Concrete - Hi-Density Block

We thank you for your consideration in this matter.

Very truly yours,

SMITHTOWN CONCRETE PRODUCTS CORP.

Edward Spevack

ES:rt
Enc.

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 11 1977
FIELD QUALITY CONTROL
By Robert Card

THE HALLER TESTING LABORATORIES

336 [illegible] Avenue
[illegible]
P. O. Box [illegible]

TESTING [illegible] INSPECTION

[illegible]

Client	Smithtown Concrete Products Corp., Smithtown, New York
Project	LILCO Nuclear Power Station, Shoreham, New York
Subject	Density of 8" x 4" x 16" 100% Solid Concrete Hi-Density Unit Block
	Lab #2259 Report No. P-76-4451 Date December 3, 1976

At the request of the client 100% solid concrete Hi-Density Unit Block received on November 30, 1976 were tested on Dec. 2 and 3, 1976 in accordance with ASTM C-140-75 for density. The 8" x 4" x 16" blocks were manufactured on Nov. 26, 1976. The results are as follows:

SAMPLE IDENTIFICATION	DENSITY LBS/CU.FT.
Batch 3 - No. 1	142.83
" No. 2	140.02
" No. 3	140.46
" No. 4	140.90
" No. 5	140.21
AVERAGE	140.88

Lab Technician: P.DeCourt

THE HALLER TESTING LABORATORIES, INC.

Elliot A. Haller

Elliot A. Haller
President

EAH:bh
Reported to:
Smithtown Concrete Products Corp.
Jericho Turnpike and Arthur Drive
Smithtown, New York 11787

SHOREHAM NUCLEAR POWER STATION
-3- APPROVED
JAN 13 [illegible]
FIELD QUALITY CONTROL
By Robert Carroll

South Shore Brick Masons
INCORPORATED
80 REDINGTON STREET • BAY SHORE, NEW YORK • 11706

October 29, 1976

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R.L. Cusick

Re: Shoreham Nuclear Power Station Unit No. 1
Long Island Lighting Company
W.O. 48923 (CC-5-508)
J.O. No. 11600.03
Purchase Order No. 310756

Gentlemen:

Enclosed are certifications for the high density block and also certifications for the hollow load bearing and solid load bearing block from Smithtown Concrete Products Corporation.

Very truly yours,

South Shore Brick Masons, Inc.

Edwin Long VP

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 12 1977
FIELD QUALITY CONTROL
By Robert A. Cavel

(516) 665 - 5800

SMITHTOWN CONCRETE PRODUCTS CORPORATION

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

October 28, 1976

South Shore Brick Masons, Inc.
80 [illegible] Street
Bayshore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will certify that the Hollow and Solid Concrete Masonry Units we propose to manufacture and deliver to subject project will conform to the following specifications:

Description of Item	A.S.T.M. Specification
4x8x16 Hollow Load Bearing Unit	C-90-75, Grade N, Type 1
6x8x16 Hollow Load Bearing Unit	
8x8x16 Hollow Load Bearing Unit	
12x8x16 Hollow Load Bearing Unit	
4x8x16- 75% Solid Load Bearing Unit	C-145-75, Grade N, Type 1
8x8x16- 75% Solid Load Bearing Unit	

ES:mt

SMITHTOWN CONCRETE PRODUCTS CORP.

BY______________________
Edward [illegible]

State of New York
County of Suffolk

Sworn to before me this

____ day of ______________ 1976.

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 12 1977
FIELD QUALITY CONTROL
[illegible]

SMITHTOWN CONCRETE PRODUCTS CORPORATION

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

October 28, 1976

South Shore Brick Masons, Inc.
80 Haddington Street
Bayshore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will certify that the Hollow and Solid Concrete Masonry Units we propose to manufacture and deliver to subject project will conform to the following specifications:

Description of Item	A.S.T.M. Specification
4x8x16 Hollow Load Bearing Unit 6x8x16 Hollow Load Bearing Unit 8x8x16 Hollow Load Bearing Unit 12x8x16 Hollow Load Bearing Unit	C-90-75, Grade N, Type 1
4x8x16 - 75% Solid Load Bearing Unit 8x8x16 - 75% Solid Load Bearing Unit	C-145-75, Grade N, Type 1

ES:mt

SMITHTOWN CONCRETE PRODUCTS CORP.

BY________________________
Edward Sgevach

State of New York
County of Suffolk

Sworn to before me this

______ day of ______________ 1976.

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 12 1977
FIELD QUALITY CONTROL

SMITHTOWN CONCRETE PRODUCTS CORPORATION

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

October 28, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bayshore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will certify that the High-Density Concrete Masonry Units we propose to manufacture and deliver to subject project will conform to the following specifications:

Description of Item	A.S.T.M. Specification
8x4x16- 100% Solid- Hi-Density Unit	C-145-75 - Grade N, Type 1, Minimum Density - 140 Lbs./per Cu.Ft.
4x8x18- 100% Solid- Hi-Density Unit	

SMITHTOWN CONCRETE PRODUCTS CORP.

ES:mt

BY____________________
Edward Spevack

State of New York
County of Suffolk

Sworn to before me this

____ day of ________ 1976.

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 1? 1977
FIELD QUALITY CONTROL

South Shore Brick Masons INCORPORATED / 88 REMINGTON STREET • BAY SHORE, NEW YORK • 11706

September 29, 1976

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R.L. Cusick
Resident Manager

Re: Shoreham Nuclear Power Station No.
Long Island Lighting Company
W.O. 48923 (CC-5-508)
J.O. No. 11600.03
Purchase order No. 310756

Gentlemen:

Enclosed is cerification of High Density concrete masonry units from Smithtown Concrete Products Corporation.

Physical samples will be delivered to the proj ct.

Very truly yours,
South Shore Brick Masons, Inc.

W. J. Hawrys

Walter J Hawrys Pres.

cc: Mr. D.F. Gifford

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 12 1977
FIELD QUALITY CONTROL
By: Robert Carol

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

September 23, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bay Shore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

Please be advised, under separate cover we have delivered to the job site, the following representative samples which are typical of those we propose to manufacture and deliver to subject project. These samples are respectfully submitted for test as per specifications:

10 pcs 4 x 8 x 18 Hollow Lightweight, ASTM C-129
10 pcs 8 x 8 x 18 Hollow Lightweight, ASTM C-90
10 pcs 8 x 8 x 18 75% Solid Lightweight, ASTM C-145

We wish to assure you of excellent quality units and prompt delivery.

Very truly yours,

SMITHTOWN CONCRETE PRODUCTS CORP.

NLS:mt

Neal L. Spevack
Neal L. Spevack

Received by.. O. B. Thompson
Date: 9/27/197[illegible]

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 12 1977
FIELD QUALITY CONTROL
By Robert A. Cawel

SMITHTOWN CONCRETE PRODUCTS CORPORATION

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

September 23, 1976

South Shore Brick Masons, Inc.
80 [illegible] Street
Bay Shore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will certify that the High-Density Concrete Masonry Units we propose to manufacture and deliver to subject project will conform to the following specifications:

Description of Item	A.S.T.M. Specification
8 x 4 x 16 - 100% Solid	C-145-75 - Minimum Density - 140 Lbs./per Cu.Ft.

[illegible]

SMITHTOWN CONCRETE PRODUCTS CORP.

By ______________________

State of New York
County of Suffolk

Sworn to before me this

[illegible] day of [illegible] 1976.

[illegible]
Notary Public, State of New York

SHOREHAM NUCLEAR POWER STATION
APPROVED
[illegible]
FIELD QUALITY CONTROL
[illegible]

South Shore Brick Masons
INCORPORATED
80 REDINGTON STREET • BAY SHORE, NEW YORK • 11706

September 21, 1976

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R. L. Cusick
Resident Manager

Gentlemen:

Re: Shoreham Nuclear Power Station Unit No.
W.O. 48923 (CC-5-508)
Long Island Lighting Company
J.O. No. 11600.03
Purchase Order No. 310756

Enclosed is certification of masonry units from Smithtown Concrete Products Corporation.

Physical samples will be delivered to the project.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

Walter J. Hawrys

Walter J. Hawrys

WJH:fr

cc: Mr. D. F. Gifford NOTED SEP 2 ? 1976

SHOREHAM NUCLEAR POWER STATION
APPROVED
SEP 2? 1976
FIELD QUALITY CONTROL
By

RECEIVED
SEP 24 1976
FIELD QUALITY CONTROL
SHOREHAM PROJECT

(516) 665-5800

SMITHTOWN CONCRETE PRODUCTS CORPORATION

Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

September 22, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bayshore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

This will serve to certify that the masonry units we propose to manufacture and deliver to subject project will conform to the following ASTM Specifications:

ASTM C-90, Type 1, Hollow load bearing concrete masonry unit.
ASTM C-129, Type 1, Hollow non-load bearing concrete masonry unit.
ASTM C-145, Type 1, Solid Load bearing concrete masonry unit.

Materials used in manufacture shall conform to ASTM C-33.

Very truly yours,

SMITHTOWN CONCRETE PRODUCTS CORP.

ES:mt

Edward Spevack

State of New York
County of Suffolk

Sworn to before me this

22 day of Sept. 1976.

JAMES W. BYRNES JR.
NOTARY PUBLIC, State of New York
No. 52-0578575
Resident in Suffolk County
Commission Expires March 30, 1977

RECEIVED
SEP 2 1976
FIELD QUALITY CONTROL
SHOREHAM PROJECT

SHOREHAM NUCLEAR POWER STATION
APPROVED
SEP 2 1976
FIELD QUALITY CONTROL
By

Birmingham Houston New York Pittsburgh San Francisco London, Eng.

ROBERT W. HUNT COMPANY

610 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

File 5039-B
Order 1-C-12841-62

August 5, 1980

Report C-470
Page 1

3

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Reference: J. O. No. 11600.50
SNPS-QC-1605

Concrete Masonry Testing
P. O. No. 313228
Shorham Nuclear Power Station

Gentlemen:

Attached are the test results on concrete masonry units submitted to our laboratory on July 11, 1980 and tested per the instuctions of your letter dated June 10, 1980.

The number of units received and their designation as received were:

10 (ten) - 8 x 8 x 18 Grade S - 75% Solid Blocks
Manufactured by Smithtown Concrete Products
SNPS-1

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement & Concrete Department

GEM/bjt

Attachments.

3 cc: Mr. T.T. Arrington - Superintendent of Field Quality Control
1 cc: Mr. Berezowski (New York Office)

TESTS ON MASONRY UNITS

Drying Shrinkage - ASTM C 426/75

	Dimensions - Inches				Weight - Lbs.			
Unit Designation	Length	Width	Height	Shell Thickness	As Rec'd	Saturated Weight	At Equilibrium	Percent Linear Drying Shrinkage
75% Solids Units								
K	17.58	7.65	7.55	2.25	50.00	53.56	49.42	(-) 0.028
L	17.57	7.65	7.54	2.20	49.94	53.25	49.22	(-) 0.026
M	17.58	7.62	7.60	2.25	50.10	53.31	49.33	(-) 0.028
							AVERAGE:	(-) 0.027

TESTS ON MASONRY UNITS

Compressive Strength - ASTM C 140/70

Unit Designation	Length In.	Width In.	Height In.	Minimum Face Shell Thickness In.	Minimum Web Thickness In.	Equivalent Web Thickness In.	Compressive Strength P.S.I.
75% Solid Units							
A	17.50	7.62	7.48	2.25	1.25	3.84	2700
B	17.52	7.65	7.55	2.20	1.25	3.77	1977
C	17.52	7.65	7.58	2.20	1.25	3.84	1843
D	17.53	7.62	7.55	2.25	1.25	3.46	2171
E	17.54	7.64	7.50	2.20	1.30	3.63	1880
						AVERAGE:	2114

- continued page 4 -

File: 5059-8
Order: 1-C-12841-62

Report: C-470
Page: 2

TESTS ON MASONRY UNITS

Absorption - ASTM C 140/70

Unit Marked	"A" Net. Vol. Cu. Ft.	"B" Gross Vol. Cu. Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs/Cu. Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet. Wt. Lbs.	"F" Suspended Immersed Wt. Lbs.	Absorption Lbs./Cu.Ft.	Absorption Percent	Moisture Percent
75% Solid Units												
F	0.44	0.58	51.25	117.53	7.65	7.48	17.51	54.71	27.50	7.9	6.8	47.7
G	0.44	0.58	49.57	112.19	7.60	7.55	17.60	53.57	26.00	9.1	8.1	29.5
H	0.44	0.58	50.95	116.03	7.60	7.58	17.50	54.90	27.50	9.0	7.8	46.8
I	0.45	0.59	51.97	115.00	7.68	7.60	17.52	55.95	27.75	8.8	7.7	30.3
J	0.44	0.59	49.83	113.19	7.65	7.55	17.52	53.53	26.06	8.4	7.4	32.7
									AVERAGE:	8.6	7.6	37.4

- continued page 3 -

New York · Pittsburgh · San Francisco

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS 60607

3

File 5039-8
Order [illegible]-12841-59

* January 22, 1980
Revised February 20, 1980

Report C-5[illegible]
Page 1 of [illegible]

RECEIVED
FEB 25 1980
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Project: Shoreham Nuclear Power Station
J.O. No. 11600.50
SNPS-QC-1480 and SNPS-QC-1479

Material Tested: Concrete Masonry Units

Gentlemen:

Attached are the test results on concrete masonry units submitted to our laboratory on December 17, 1979 and tested per the instructions of your letter dated December 3, 1979.

The number of units received and their designation as received were:

13 (thirteen) - 4" x 8" x 16" 100% Solid Masonry Units
Manufactured by Smithtown Concrete Products

13 (thirteen) - 8" x 8" x 18" Hollow Masonry Units
Manufactured by Smithtown Concrete Products

Respectfully submitted,

ROBERT W. HUNT COMPANY

G.E. Matoush

G.E. Matoush, Manager
Cement & Concrete Department

* This report revised to show correction of typographical error. (page 3)

GEM/bem

Attachments.

1 cc: Mr. T.T. Arrington - Superintendent of Field Quality Control
1 cc: [illegible] Bafekowski - [illegible] Office)
1 cc: Quality Assurance - (Chicago)

TESTS ON MASONRY UNITS

Absorption - ASTM C 140/70

Unit Marked	"A" Net. Vol. Cu. Ft.	"B" Gross Vol. Cu. Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs/Cu. Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet. Wt. Lbs.	"F" Suspended Immersed Wt. Lbs.	Absorption Lbs./Cu.Ft.	Absorption Percent	Moisture Percent
Hollow Units - SNPS-QC-1480												
F	0.30	0.59	34.27	113.27	7.65	7.63	17.58	36.75	17.87	8.20	7.2	22.2
G	0.28	0.59	33.28	120.88	7.68	7.54	17.54	36.30	19.12	10.97	9.1	27.8
H	0.30	0.59	32.80	108.98	7.63	7.55	17.64	35.65	16.87	9.47	8.7	19.6
I	0.35	0.59	36.26	103.60	7.68	7.54	17.54	39.21	17.37	8.43	8.1	33.6
								Average	....	9.27	8.3	25.8

Note: One hollow masonry unit was broken during transit and therefore not included.

Unit Marked	"A" Net. Vol. Cu. Ft.	"B" Gross Vol. Cu. Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs/Cu. Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet. Wt. Lbs.	"F" Suspended Immersed Wt. Lbs.	Absorption Lbs./Cu.Ft.	Absorption Percent	Moisture Percent
High Density (100%) Solid Units - SNPS-QC-1479												
F	0.25	0.25	36.32	142.00	3.66	7.66	15.55	37.46	21.50	4.46	3.1	48.2
G	0.25	0.25	34.53	137.24	3.70	7.62	15.54	35.95	20.25	[illegible].64	4.1	46.5
H	0.25	0.25	35.16	141.18	3.58	7.67	15.55	36.16	20.62	4.02	2.8	59.0
I	0.25	0.25	35.68	140.03	3.65	7.64	15.58	36.77	20.87	4.28	3.1	48.6
J	0.26	0.26	36.66	141.65	3.75	7.65	15.56	37.77	21.62	4.29	3.0	68.5
								Average	....	4.54	3.2	54.2

- continued page 3 -

File: 059-9
Order: 1-C-12841-59

Report: C-54
Page 3

TESTS ON MASONRY UNITS

Compressive Strength - ASTM C 140/70

Unit Designation	Length In.	Width In.	Height In.	Minimum Face Shell Thickness In.	Minimum Web Thickness In.	Equivalent Web Thickness In.	Compressive Strength P.S.I.
Hollow Units - SNPS-QC-1480							
A	17.55	7.65	7.54	1.28	1.08	2.87	1150
B	17.58	7.64	7.64	1.14	1.07	2.35	1388
C	17.54	7.63	7.43	1.30	1.10	3.17	1169
D	17.56	7.60	7.60	1.24	1.11	2.91	1364 *
E	17.55	7.64	7.64	1.30	1.12	2.18	1154 *
						Average	1245 *
High Density (100%) Solid Units - SNPS-QC-1479							
A	15.54	3.65	7.65	----	----	----	4884
B	15.55	3.70	7.68	----	----	----	4953
C	15.55	3.65	7.66	----	----	----	5021
D	15.54	3.66	7.64	----	----	----	4395
E	15.55	3.62	7.63	----	----	----	4797
						Average	4810

* Revised to omit decimal points.

- continued page 4 -

File: 5059-8
Order: 1-C-12841-59

Report: C-54*
Page : 4*

TESTS ON MASONRY UNITS

Drying Shrinkage - ASTM C 426/75

Unit Designation	Dimensions - Inches: Length	Width	Height	Shell Thickness	Weight - Lbs.: As Rec'd	Saturated Weight	At Equilibrium	Percent Linear Drying Shrinkage
Hollow Units - SNPS-QC-1480 *								
J	17.52	7.64	7.58	1.22	33.90	35.94	33.30	(-) 0.039
K	17.54	7.64	7.53	1.22	33.29	35.60	32.74	(-) 0.034
L	17.54	7.64	7.53	1.26	37.50	39.56	36.73	(-) 0.031
							Average	(-) 0.035
High Density (100%) Solid Units - SNPS-QC-1479								
K	15.55	3.64	7.36	----	35.07	35.93	34.64	(-) 0.019
L	15.55	3.70	7.66	----	36.70	37.25	36.40	(-) 0.011
M	15.55	3.70	7.64	----	34.84	35.68	34.35	(-) 0.020
							Average	(-) 0.017

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

P.O. 2039-8
Order 1-C-12841-59 January 22, 1980

Report C-54
Page 1

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

3

Project: Shoreham Nuclear Power Station
J.O. No. 11600.50
SNPS-QC-1480 and SNPS-QC-1479

Material Tested: Concrete Masonry Units

Gentleman:

Attached are the test results on concrete masonry units submitted to our laboratory on December 17, 1979 and tested per the intructions of your letter dated December 3, 1979.

The number of units received and their designation as received were:

13 (thirteen) - 4" x 8" x 16" 100% Solid Masonry Units
Manufactured by Smithtown Concrete Products

13 (thirteen) - 8" x 8" x 18" Hollow Masonry Units
Manufactured by Smithtown Concrete Products

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G.E. Matoush, Manager
Cement & Concrete Department

GEM/bem

Attachments.

3 cc: Mr. T.T. Arrington - Superintendent of Field Quaility Control
1 cc: Mr. Bazarowski (New York Office)
1 cc: Quality Assurance (Chicago,)

Fi[illegible] [illegible]05 [illegible] 3
Or[illegible] 1-[illegible]2841-59

TESTS ON MASONRY UNITS

Report :C- 54
Page: 2

[illegible] - ASTM C 140/70

Unit Marked	"A" [illegible] Vol. Cu. Ft.	"B" Gross Vol. Cu. Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs./Cu.Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet Wt. Lbs.	"F" Suspended Immersed Wt.:Lbs.	Absorption Lbs/Cu.Ft.	Absorption Percent	Moisture Percent
Hollow Units - [illegible]S-QC-1480												
[illegible]	.30	0.59	34.27	113.27	7.65	7.63	17.58	36.75	17.87	8.20	7.2	22.2
G	.28	0.59	33.28	120.88	7.68	7.54	17.54	36.30	19.12	10.97	9.1	27.8
H	.30	0.59	32.80	108.98	7.63	7.55	17.64	35.65	16.87	9.47	8.7	19.6
I	.35	0.59	36.26	103.60	7.68	7.54	17.54	39.21	17.37	8.43	8.1	33.6
								Average	....	9.27	8.3	25.8

Note: one [illegible]llow masonry unit was broken during transit and therefore not included.

Unit Marked	"A" [illegible] Vol. Cu. Ft.	"B" Gross Vol. Cu. Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs./Cu.Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet Wt. Lbs.	"F" Suspended Immersed Wt.:Lbs.	Absorption Lbs/Cu.Ft.	Absorption Percent	Moisture Percent
[illegible] (100%) Solid Units - SNPS-QC-1479												
[illegible]	.25	0.25	36.32	142.00	3.66	7.66	15.55	37.46	21.50	4.46	3.1	48.2
G	.25	0.25	34.53	137.24	3.70	7.62	15.54	35.95	20.25	5.64	4.1	46.5
H	.25	0.25	35.16	141.18	3.58	7.67	15.55	36.16	20.62	4.02	2.8	59.0
I	.25	0.25	35.68	140.03	3.65	7.64	15.58	36.77	20.87	4.28	3.1	48.6
J	.26	0.26	36.66	141.65	3.75	7.65	15.56	37.77	21.62	4.29	3.0	68.5
								Average	....	4.54	3.2	54.[illegible]

- continued page 3 -

TESTS ON MASONRY UNITS

Compressive Strength - ASTM C 140/70

Unit Designation	Length In.	Width In.	Height In.	Minimum Face Shell Thickness In.	Minimum Web Thickness In.	Equivalent Web Thickness In.	Compressive Strength P.S.I.
Hollow Units-SNPS-QC-1940							
A	17.55	7.65	7.54	1.28	1.08	2.87	1150
B	17.58	7.64	7.64	1.14	1.07	2.35	1388
C	17.54	7.63	7.43	1.30	1.10	3.17	1169
D	17.56	7.60	7.60	1.24	1.11	2.91	13.64
E	17.55	7.64	7.64	1.30	1.12	2.18	11.54
						Average	12.45
H… …y (100%) Solid Units - SNPS-QC-1479							
A	15.54	3.65	7.65	----	----	----	4886
B	15.55	3.70	7.68	----	----	----	4953
C	15.55	3.65	7.66	----	----	----	5021
D	15.54	3.66	7.64	----	----	----	4395
E	15.55	3.62	7.63	----	----	----	4797
						Average	4810

- continued page 4 -

[illegible] 9 TESTS ON MASONRY UNITS [illegible]

[illegible] - ASTM C 426/75

[illegible]	Dimensions - Inches Length	Width	Height	Shell Thickness	Weight - Lbs. As Rec'd	Saturated Weight	At Equilibrium	Percent Linear Drying Shrinkage
[illegible] - SNPS-QC-1940								
[illegible]	17.52	7.64	7.58	1.22	33.90	35.94	33.30	(-) 0.039
[illegible]	17.54	7.64	7.53	1.22	33.29	35.60	32.74	(-) 0.034
[illegible]	17.54	7.64	7.53	1.26	37.50	39.56	36.73	(-) 0.031
							Average	(-) 0.035
[illegible] (100%) Solid Units - SNPS-QC-1479								
[illegible]	15.55	3.64	7.36	----	35.07	35.93	34.64	(-) 0.019
[illegible]	15.55	3.70	7.66	----	36.70	37.25	36.40	(-) 0.011
[illegible]	15.55	3.70	7.64	----	34.84	35.68	34.35	(-) 0.020
							Average	(-) 0.017

Birmingham Houston New York Pittsburgh San Francisco London, Eng.

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS 60607

3

File 5059-8
Order 15-C-12841

January 9, 1979

Report B-16
Page 1

RECEIVED
JAN 16 1979
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Reference: J. O. No. 11600.50
SNPS-QC-1208

Concrete Masonry Testing
Shorham Nuclear Power Station

Gentlemen:

Attached are the test results on concrete masonry units submitted to our laboratory on November 28, 1978 and tested per the instructions of your letter dated November 10, 1978.

The number of units received and their designation as received were:

13 (thirteen) - 4" x 8" x 16" 100% Solid Masonry Units
Manufactured by Smithtown Concrete Products

13 (thirteen) - 8 x 8 x 18 Hollow Masonry Units
Manufactured by Smithtown Concrete Products

FILE CODE SH1-390
NAME RAlawel
DATE 1/16/78

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G.E. Matoush, Manager
Cement & Concrete Department

GEM/jlp
Attach
1cc: R. L. Bernard
1cc: J. P. Allen
1cc: R. L. Cusick
4cc: T. J. Burke

Tests on Masonry Units

Absorption - ASTM C 140 - 70

Unit Designation	"A" Net. Vol. Cu.Ft.	"B" Gross Vol. Cu.Ft.	"C" Dry Wt. Lbs.	"D" Density Lbs./Cu.Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet. Wt Lbs.	"F" Suspended Immersed Wt., Lbs.	Absorption Lbs./Cu.Ft.	Absorption Percent	Moistur Percen
Hollow Units												
1-A-1	0.30	0.59	32.97	108.11	7.62	7.56	17.62	36.65	17.62	12.07	11.16	21.19
1-A-2	0.30	0.59	32.72	109.48	7.62	7.56	17.62	36.06	17.41	11.18	10.20	24.85
1-A-3	0.30	0.59	33.10	109.92	7.62	7.56	17.62	36.41	17.62	10.99	10.00	21.15
1-A-4	0.33	0.59	35.91	109.57	7.62	7.62	17.62	39.61	19.16	11.29	10.30	17.57
1-A-5	0.33	0.59	35.88	109.80	7.62	7.62	17.62	39.51	19.12	11.11	10.12	17.08
								Average	....	11.32	10.36	20.37
100% Solid Units												
2-A-1	0.25	0.25	34.87	138.59	3.68	7.68	15.56	36.39	20.69	6.04	4.36	80.[illegible]
2-A-2	0.25	0.25	34.31	141.22	3.59	7.62	15.56	35.60	20.44	5.31	3.76	87.69
2-A-3	0.25	0.25	34.51	141.49	3.68	7.68	15.56	35.84	20.62	5.49	3.88	85.07
2-A-4	0.25	0.25	34.85	139.13	3.75	7.68	15.56	36.32	20.69	5.87	4.21	68.03
2-A-5	0.25	0.25	33.91	141.16	3.56	7.68	15.56	35.24	20.25	5.54	3.92	78.20
								Average	....	5.65	4.03	79.98

- continued page 3 -

Tests on Masonry Units

Compressive Strength - ASTM C 140 - 70

Unit Designation	Length in.	Width in.	Height in.	Minimum Face Shell Thickness in.	Minimum Web Thickness in.	Equivalent Web Thickness in.	Compressive Strength PSI
Hollow Units							
1-C-1	17.63	7.69	7.56	1.19	1.13	2.31	1088
1-C-2	17.63	7.69	7.56	1.19	1.13	2.31	1088
1-C-3	17.63	7.69	7.56	1.31	1.13	2.31	1143
1-C-4	17.63	7.63	7.63	1.31	1.13	2.31	937
1-C-5	17.63	7.63	7.63	1.25	0.94	1.92	1135
					Average	2.23	1077
100% Solid Units							
2-C-1	15.56	3.56	7.69	---	---	---	5362
2-C-2	15.50	3.63	7.69	---	---	---	4754
2-C-3	15.56	3.69	7.69	---	---	---	4702
2-C-4	15.50	3.63	7.63	---	---	---	4967
2-C-5	15.56	3.63	7.69	---	---	---	5312
						Average	5020

- continued page 4 -

Tests on Masonry Units

Drying Shrinkage - ASTM C 426 - 70 (Reapproved 1976)

Unit Designation	Dimensions - Inches Length	Width	Height	Shell Thickness	Weight - Lbs. As Rec'd	Saturated	At Equilibrium	Percent Linear Drying Shrinkage
Hollow Units								
1-L-1	17.63	7.69	7.56	1.13	33.73	36.38	33.90	0.008
1-L-2	17.63	7.63	7.63	1.13	34.12	36.62	34.15	0.004
1-L-3	17.63	7.63	7.56	1.13	33.09	35.82	33.25	0.010
						Average	....	0.007
100% Solid Units								
2-L-1	15.56	3.75	7.69	---	36.61	37.04	36.63	0.009
2-L-2	15.56	3.56	7.69	---	35.41	35.87	35.43	0.008
2-L-3	15.56	3.75	7.69	---	36.02	36.54	36.05	0.009
						Average	....	0.009

3

File 1059-8
Order 1-C-12841

January 16, 1978

Report A-70
Page 1

RECEIVED
JAN 18 1978
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Attention: Mr. R. L. Bernard

Reference: J. O. No. 11600.03
SNPS-QC-925

Concrete Masonry Testing
P. O. No. 313228
Shoreham Nuclear Power Station

Gentlemen:

Attached are the test results on concrete masonry units submitted to our laboratory on December 2, 1977 and tested per the instructions of your letter dated November 28, 1977.

The number of units received and general description of received masonry units per packing list was:

13 (thirteen) - 4 x 8 x 18 Solid Masonry Blocks

FILE CODE SH1-390
NAME RA Cavel
DATE 1/24/78

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement & Concrete Department

GEM/trb
Attach.

1cc: R. L. Cusick, Stone & Webster
1cc: J. P. Allen, Stone & Webster
✓1cc: R. L. Bernard, Stone & Webster
4cc: T. J. Burke, Long Island Lighting Co.
1cc: R. W. Hunt, New York Office
1cc: R. W. Hunt, Quality Assurance, Chicago

NOTED JAN 24 1978 R.A. CAVEL

File No. 5059-8
Order No. 1-C-12841

January 16, 1978

Report A-70
Attachment No. 1

TESTS ON MASONRY UNITS

ABSORPTION - ASTM C140

Unit Designation	"A" Net Vol. C.Ft.	"B" Gross Vol. Cu.Ft.	"C" Dry Wt. lbs.	"D" Density lb/Cu.Ft.	"H" Ht. In.	"W" Width In.	"L" Length In.	"E" Wet Wt. lbs.	"F" Suspended Immersed Wt., lbs.	Absorption lbs/Cu.Ft.	Absorption Percent	Moisture Percent
A	0.249	0.249	34.95	140.25	7.62	3.64	15.53	36.36	20.81	5.66	4.03	45.39
B	0.249	0.252	35.60	142.95	7.66	3.66	15.56	37.12	21.58	6.10	4.27	49.34
C	0.248	0.248	34.41	138.98	7.64	3.61	15.56	35.95	20.50	6.22	4.48	41.56
D	0.248	0.255	35.50	143.19	7.67	3.69	15.56	37.14	21.67	6.62	4.62	41.46
E	0.249	0.251	34.74	139.41	7.66	3.64	15.53	36.30	20.75	6.26	4.49	38.46
F	0.249	0.253	35.00	140.54	7.66	3.67	15.56	36.38	20.84	5.54	3.94	41.02
G	0.250	0.252	35.08	140.59	7.64	3.66	15.56	36.51	20.94	5.73	4.08	48.95
H	0.247	0.248	34.58	139.75	7.66	3.61	15.47	36.07	20.63	6.02	4.31	43.62
I	0.248	0.250	34.93	140.62	7.64	3.64	15.53	36.44	20.94	6.08	4.32	47.02
J	0.249	0.253	35.50	142.55	7.66	3.67	15.53	36.89	21.35	5.58	3.92	51.08
								Average -		5.98	4.25	44.79

January 16, 1978

File No. 5059-8
Order No. 1-C-12841

Report A-70
Attachment No. 2

TESTS ON MASONRY UNITS

COMPRESSIVE STRENGTH - ASTM C140

Designation	Length	Height	Width	Gross Area	*Compressive Strength P.S.I.
A	15.53	7.62	3.64	56.53	5307+
B	15.56	7.66	3.66	56.95	5268+
C	15.56	7.64	3.61	56.17	5341+
D	15.56	7.67	3.69	57.42	5225+
E	15.53	7.66	3.64	56.53	5307+
F	15.56	7.66	3.67	57.11	5253+
G	15.56	7.64	3.66	56.95	5268+
H	15.47	7.66	3.61	55.85	5372+
I	15.53	7.64	3.64	56.53	5307+
J	15.53	7.66	3.67	57.00	5263+

Linear Dimensions - Inches

*Compressive Strength in Excess of Capacity of Testing Machine

January 16, 1978

File No. 5059-8
Order No. 1-C-12841

TESTS ON MASONRY UNITS

Report A-70
Attachment No. 3

DRYING SHRINKAGE - ASTM C426

Unit Designation	Length	Width	Height	Weight - lbs. As Received	Weight - lbs. Saturated	Weight - lbs. At Equilibrium	Percent Linear Drying Shrinkage
K	15.56	7.66	3.61	35.55	36.36	35.41	0.014
L	15.56	7.66	3.67	35.22	37.07	36.01	0.001
M	15.56	7.64	3.64	35.76	36.52	35.63	0.00[illegible]
							0.007

Linear Dimensions - Inches

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

3

Report Z-2145
Page 1

File 5059-8
Order 1-C-12841

December 5, 1977

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Reference: J. O. No. 11600.50
SNPS-QC-905

Concrete Masonry Testing
P. O. No. 313228
Shorham Nuclear Power Station

Gentlemen:

Attached are the test results on concrete masonry units submitted to our laboratory on October 31, 1977 and tested per the instructions of your letter dated October 17, 1977.

The number of units received and their designation as received were:

13 (thirteen) - 8 x 8 x 18 Solid block - ASTM C145
Submitted by South Shore Brick
Manufactured by Smithtown Concrete Products
SNPS-1

13 (thirteen) - 8 x 8 x 18 Hollow Load Bearing - ASTM C90
Submitted by South Shore Brick
Manufactured by Smithtown Concrete Products
SNPS-1

Respectfully submitted,

ROBERT W. HUNT COMPANY

G E Matoush

G. E. Matoush, Manager
Cement & Concrete Department

RECEIVED
DEC 09 1977
FIELD QUALITY CONTROL
SHOREHAM PROJECT

GEM/trb

Attach.

cc: R. L. Bernard, Stone & Webster

NOTED JAN 19 1978

December 5, 1977

File No. 5059-8
Order No. 1-C-12841

Report Z-2145
Attachment No. 1

TESTS ON MASONRY UNITS

COMPRESSIVE STRENGTH - ASTM C140

Designation	Length	Width	Height	Minimum Face Shell Thickness	Web Thickness (Min.)	Equivalent Web Thickness	Compressive Strength P.S.I.
75% Solid Units - ASTM C145							
1-C-1	17.59	7.62	7.56	2.22	1.25	3.47	2033
1-C-2	17.59	7.62	7.59	2.18	1.31	3.51	2015
1-C-3	17.59	7.62	7.59	2.22	1.25	4.60	2127
Average -						3.86	2058
Hollow Units - ASTM C90							
2-C-1	17.61	7.62	7.64	1.22	1.03	2.32	1192
2-C-2	17.62	7.62	7.62	1.22	1.03	2.72	1173
2-C-3	17.61	7.64	7.65	1.19	1.03	2.71	1212
Average -						2.58	1192

UNITS - Length: inches
Weight: pounds

December 5, 1977

File No 5059-8
Order No 1-C-12841

Report 2-2145
Attachment No. 2

TESTS ON MASONRY UNITS

ABSORPTION - ASTM C140

Unit Designation	"A" Net Vol. Cu.Ft.	"B" Gross Vol. Cu.Ft.	"C" Dry Wt. lbs.	"D" Density lb/Cu.Ft.	"W" Width In.	"H" Ht. In.	"L" Length In.	"E" Wet Wt. lbs.	"F" Suspended Immersed Wt., lbs.	Absorption lbs/Cu.Ft.	Absorption Percent	Moisture Percent
75% Solid Units - ASTM C145												
1-A-1	0.44	0.59	47.47	107.01	7.59	7.59	17.61	51.99	24.31	10.19	9.52	43.36
1-A-2	0.44	0.59	47.30	107.76	7.61	7.56	17.61	52.08	24.69	10.89	10.11	42.05
1-A-3	0.45	0.53	47.67	107.08	7.29	7.29	17.29	52.28	24.50	10.36	9.67	50.54
Average -										10.48	9.77	45.32
Hollow Units - ASTM C90												
2-A-1	0.31	0.54	33.65	108.23	7.32	7.32	17.30	37.09	17.69	11.06	10.22	38.66
2-A-2	0.31	0.54	33.34	108.75	7.32	7.31	17.31	36.57	17.44	10.54	9.69	43.[illegible]
2-A-2	0.31	0.54	33.82	107.95	7.32	7.30	17.30	36.30	17.25	9.51	8.81	45.9[illegible]
Average -										10.37	9.57	42.5[illegible]

December 5, 1977

File No. 5039-6
Order No. 1-C-12841

TESTS ON MASONRY UNITS

Report Z-[illegible]-5
Attachment No. [illegible]

DRYING SHRINKAGE - ASTM C426

Unit Designation	Length	Width	Height	Shell Thickness	Weight - lbs. As Received	Weight - lbs. Saturated	Weight - lbs. At Equilibrium	Percent Linear Drying Shrinkage
75% Solid Units - ASTM C145								
1-L-1	17.59	7.59	7.59	2.19	49.70	52.62	49.04	0.040
1-L-2	17.61	7.61	7.58	2.06	50.09	52.40	49.13	0.037
1-L-3	17.61	7.62	7.56	2.06	49.67	52.51	48.67	0.037
Average -								0.038
Hollow Units - ASTM C90								
2-L-1	17.64	7.64	7.64	1.22	34.87	37.11	34.17	0.044
2-L-2	17.59	7.62	7.65	1.22	34.84	37.11	34.14	0.048
2-L-3	17.62	7.61	7.64	1.19	34.61	36.98	33.94	0.045
Average -								0.046

South Shore Brick Masons / 80 RFOINGTON STREET • BAY SHORE, NEW YORK • 11706
INCORPORATED

January 4, 1977

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Mr.R.L. Cusick

Re: Shoreham Nuclear Power Station Unit No. 1
Long Island Lighting Company
W.O. 48923 (CC-5-508)
J.O. No. 11600.03
Purchase Order No. 310756

Gentlemen;

Enclosed find Test Report No. P-76- 4570 from Haller Testing Laboratories for:

8 x 4 x 16 100% Solid Concrete -Hi-Density Block.

Very truly yours,

South Shore Brick Masons, Inc.

Edwin Long VP

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 13 1977
FIELD QUALITY CONTROL
By

RECEIVED
JAN 10 1977
FIELD QUALITY CONTROL
SHOREHAM PROJECT

(516) 665-5800

THE HALLER TESTING LABORATORIES
INCORPORATED
336 Leland Avenue
P. O. Box 45
Plainfield, N. J. 07061
TESTING INSPECTION
CONSULTATION

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 13 1977
FIELD QUALITY CONTROL
By Robert G. Carvel

TEST REPORT ON BUILDING UNITS

Client Smithtown Concrete Products Corp., Smithtown, N.Y.

Project LILCO Nuclear Power Station, Shoreham, New York

Producer Smithtown Concrete Products Corp.

Kind & Type of Unit 8"x4"x16" - 100% Solid Concrete Block

Test for Smithtown Concrete Products Corp.

Report No. P-76-4570

Date 12-21-76

COMPRESSION TEST

Identification	#1	#2	#3	#4	#5	
Date Made						
Date Tested	12-16-76	12-16-76	12-16-76	12-16-76	12-16-76	
Age of Specimen						
How Bedded		H Y D R O	S T O N E			
Length—Inches	15.5	15.5	15.5	15.5	15.5	
Width—Inches	7.625	7.625	7.625	7.625	7.625	
Height—inches	3.625	3.625	3.625	3.625	3.625	
Gross Area in Square Inches	118.19	118.19	118.19	118.19	118.19	
Net Area in Square Inches						
Total Crushing Strength—lbs	350,000+	350,000+	350,000+	350,000+	350,000+	
Strength Per Square Inch—Gross	2,944+	2,944+	2,944+	2,944+	2,944+ (*)	
Strength Per Square Inch—Net						
Required Strength						

ABSORPTION TEST

	#6	#7	#8	#9	#10	Average
Weight, as received, lbs.	35.54	35.82	36.38	34.88	35.82	:
Dry Weight—lbs	35.38	35.60	36.20	34.70	35.60	
Wet Weight—lbs	36.78	36.96	37.70	36.48	37.16	
Weight of Unit Immersed	20.90	21.24	21.62	20.64	21.32	
Weight, lbs. per cubic foot of Concrete						
Absorption, percent	3.96	3.32	4.14	5.13	4.38	4.29
Absorption, lbs. per cubic foot of concrete	5.50	5.40	5.82	7.01	6.14	5.97
Moisture Content, % of Total Absorption	11.40	16.18	12.00	10.11	14.10	12.76

Remarks: Blocks test in accordance with ASTM C-140. Results meet requirements of ASTM C-145, Grade N, Type I. Blocks for test delivered to our laboratory by Client. (*) Did not break [illegible] capacity of testing machine.

Reported to: Smithtown Concrete Products Corp., Jericho Turnpike & Arthur [illegible]
Smithtown, N.Y.
11787 -3-

THE HALLER TESTING LABORATORIES, Inc.
Elliot B. Haller

Form No. 1313

THE HALLER TESTING LABORATORIES

INCORPORATED

336 [illegible] Avenue
P. O. Box 46
[illegible], N. J. 07061

TESTING — INSPECTION — CONSULTATION

SHOREHAM NUCLEAR POWER STATION
APPROVED
JAN 13 1977
FIELD QUALITY CONTROL
By [signature]

TEST REPORT ON BUILDING [illegible]

Client: Smithtown Concrete Products Corp., Smithtown, N.Y.

Project: LILCO Nuclear Power Station, Shoreham, New York

Producer: Smithtown Concrete Products Corp.

Kind & Type of Unit: 8"x4"x16" - 100% Solid Concrete Block

Test for: Smithtown Concrete Products Corp.

Report No. P-76-4570 — Date 12-21-76

COMPRESSION TEST

Identification	#1	#2	#3	#4	#5	
Date Made						
Date Tested	12-16-76	12-16-76	12-16-76	12-16-76	12-16-76	
Age of Specimen						
How Bedded	H Y D R O S T O N E					
Length—Inches	15.5	15.5	15.5	15.5	15.5	
Width—Inches	7.625	7.625	7.625	7.625	7.625	
Height—Inches	3.625	3.625	3.625	3.625	3.625	
Gross Area in Square Inches	118.19	118.19	118.19	118.19	118.19	
Net Area in Square Inches						
Total Crushing Strength—lbs	350,000+	350,000+	350,000+	350,000+	350,000+	
Strength Per Square Inch—Gross	2,944+	2,944+	2,944+	2,944+	2,944+	(*)
Strength Per Square Inch—Net						
Required Strength						

ABSORPTION TESTS

	#6	#7	#8	#9	#10	Average
Weight, as received, lbs.	35.54	35.82	36.38	34.88	35.82	
Dry Weight—lbs.	35.38	35.60	36.20	34.70	35.60	
Wet Weight—lbs.	36.78	36.96	37.70	36.48	37.16	
Weight of Unit Immersed	20.90	21.24	21.62	20.64	21.52	
Weight, lbs. per cubic foot of Concrete						
Absorption, percent	3.95	3.82	4.14	5.15	4.38	4.29
Absorption, lbs. per cubic foot of concrete	5.50	5.40	5.82	7.01	6.14	5.97
Moisture Content % of Total Absorption	11.40	16.18	12.00	10.11	14.10	12.76

[illegible] ASTM C-[illegible]. Results meet requirements of ASTM C-145, Grade N, Type I. [illegible] delivered to our laboratory [illegible]. (*) [illegible] capacity of testing machine.

Reported for: Smithtown Concrete Products Corp., Jericho Turnpike & Arthur [illegible], Smithtown, N.Y. 11787

THE HALLER TESTING LABORATORIES, INC.

[signature]

ROBERT W. HUNT COMPANY

810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

File 5059-8
Order 1-C-12841

November 15, 1976

Report Y-264
Page 1

3

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, NY 11792

Reference: J. O. No. 11600.03
SNPS-3664

Concrete Masonry Testing
P. O. No. 313228 Specification No. SHI-390
Shoreham Nuclear Power Station - Unit 1
W010-48923

Subject: Tests on Masonry Units

Gentlemen:

We herein report test results on concrete masonry units submitted to our laboratory on October 5, 1976 and tested in accordance with instructions contained in your letter of September 28, 1976.

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement and Concrete Laboratories

GEM:lp
Attachments - 3

COPY

RECEIVED
NOV 18 1976
FIELD QUALITY CONTROL
SHOREHAM PROJECT

File No. 5059-8
Order No. P-C-12841

November 15, 1976

Report: [illegible]
Attachment No. [illegible]

TESTS ON MASONRY UNITS

COMPRESSIVE STRENGTH - ASTM C140

MEASUREMENT - INCHES

Unit Designation		Length	Width	Height	Minimum Face Shell Thickness	Web Thickness	Equivalent Web Thickness	Compressive Strength P.S.I.
1C-1		17.63	3.63	7.50	1.00	1.12		2078
1C-2		17.63	3.63	7.50	1.00	1.12		2195
1C-3		17.63	3.63	7.50	1.00	1.12		2359
1C-4		17.63	3.63	7.50	1.00	1.12		2094
1C-5		17.63	3.63	7.50	1.00	1.12		1815
	Average -						3.05	2108
2C-1		17.50	7.63	7.63	1.25	1.00		1198
2C-2		17.50	7.63	7.63	1.25	1.00		1243
2C-3		17.50	7.63	7.63	1.25	1.00		1030
2C-4		17.50	7.63	7.63	1.25	1.00		992
2C-5		17.50	7.63	7.63	1.25	1.00		985
	Average -						2.06	1090
3C-1		17.63	7.63	7.63	2.25	1.25		1747
3C-2		17.63	7.63	7.63	2.25	1.25		2067
3C-3		17.63	7.63	7.63	2.25	1.25		1840
3C-4		17.63	7.63	7.63	2.25	1.25		1732
3C-5		17.63	7.63	7.63	2.25	1.25		1557
	Average -						3.40	1789

File No. [illegible]
Order No. 1-C-12841

ABSORPTION - ASTM C140

Unit Designation	"A" Net Volume Cu. Ft.
1A-1	0.18
1A-2	0.18
1A-3	0.19
1A-4	0.18
1A-5	0.18
Average	
2A-1	0.30
2A-2	0.30
2A-3	0.30
2A-4	0.31
2A-5	0.30
Average	
3A-1	0.45
3A-2	0.44
3A-3	0.45
3A-4	0.45
3A-5	0.45
Average	

November 15,1976

Report: Y-264
Attachment No 2.

TESTS ON MASONRY UNITS

"B" Gross Volume Cu. Ft.	"C" Dry Weight Lbs.	"D" Density Lb/Cu. Ft.	"W" Width Inches	"H" Height Inch[illegible]	"L" Length Inches	"E" Wet Wt. Lbs.	"F" Suspended Immersed Wt. Lbs.	Absorption Lbs/Cu.Ft.	Absorption Percent	Moist[illegible] Perc[illegible]
0.28	23.27	111.01	3.63	7.50	17.63	25.40	12.32	10.16	9.15	31.[illegible]
0.28	22.76	108.00	3.63	7.50	17.63	25.15	12.00	11.34	10.50	34.7[illegible]
0.28	23.22	107.33	3.63	7.50	17.63	25.40	11.90	10.08	9.39	35.7[illegible]
0.28	23.22	110.52	3.63	7.50	17.63	25.48	12.37	10.76	9.73	41.1[illegible]
0.28	23.04	110.76	3.63	7.50	17.63	25.16	12.18	10.19	9.20	40.[illegible]
								10.51	9.59	36.7[illegible]
0.59	32.46	107.00	7.63	7.63	17.50	35.80	16.87	11.01	10.29	20.0[illegible]
0.59	32.39	106.21	7.63	7.63	17.50	35.80	16.77	11.18	10.53	21.[illegible]
0.59	32.35	106.13	7.63	7.63	17.50	35.79	16.77	11.29	10.63	22.[illegible]
0.59	32.38	106.00	7.63	7.63	17.50	35.92	16.86	11.59	10.93	20.[illegible]
0.59	32.50	106.91	7.63	7.63	17.50	35.82	16.85	10.92	10.22	23.[illegible]
								11.20	10.52	21.47
0.59	48.22	107.50	7.63	7.63	17.63	53.12	25.13	10.92	10.16	36.3[illegible]
0.59	47.88	107.70	7.63	7.63	17.63	52.74	25.00	10.93	10.15	39.7[illegible]
0.59	47.55	106.77	7.63	7.63	17.63	52.68	24.89	11.52	10.79	38.2[illegible]
0.59	47.69	107.12	7.63	7.63	17.63	52.69	24.91	11.23	10.48	36.0[illegible]
0.59	48.22	107.27	7.63	7.63	17.63	53.15	25.10	10.97	10.22	38.7[illegible]
								11.11	10.36	37.41

TESTS ON MASONRY UNITS

DRYING SHRINKAGE - ASTM C426

Unit Designation	Length	Size - Inches Width	Height	Shell Thickness	Weight - Lbs. As Rec.	Saturated	At Equilibrium	Per Cent Linear Drying Shrinkage
1A-1	17.63	3.63	7.50	1.00	23.95	25.35	23.61	.021
1A-2	17.63	3.63	7.50	1.00	23.59	25.00	23.15	.016
1A-3	17.63	3.63	7.50	1.00	24.00	25.50	23.60	.019
							Average	.019
2A-1	17.50	7.63	7.63	1.25	33.13	36.10	32.95	.017
2A-2	17.50	7.63	7.63	1.25	33.11	36.05	32.89	.018
2A-3	17.50	7.63	7.63	1.25	33.11	36.05	32.82	.019
							Average	.[illegible]8
3A-1	17.63	7.63	7.63	2.25	50.00	53.40	49.45	.010
3A-2	17.63	7.63	7.63	2.25	49.81	53.05	49.11	.003
3A-3	17.63	7.63	7.63	2.25	49.41	53.00	48.63	.005
							Average	.006

NEW YORK, N. Y. | BOSTON, MASS. | NEW HAVEN, CONN. | PLAINFIELD, N. J.

THE HALLER TESTING LABORATORIES

INCORPORATED

336 Leland Avenue
P. O. Box 46
Plainfield, N. J. 07061

3

TESTING — INSPECTION — CONSULTATION

TEST REPORT ON BUILDING UNITS

Client [illegible]town Concrete Products Corporation, [illegible]ithtown, N. Y.

Project LILCO Nuclear Power Station, [illegible], N. Y.

Producer [illegible]ithtown Concrete Products Corporation

Kind & Type of Unit [illegible] - 8x8x18" - 3 Cell - 75 Solid

Test for [illegible]ithtown Concrete Products Corporation

Report No. P-76 - 4257 (Revised) Date 11-1[illegible]-76

COMPRESSION TEST

Identification	#1	#2	#3	#4		
Date Made						
Date Tested	11-12-76	11-1[illegible]-76	11-1[illegible]-76	11-1[illegible]-76		
Age of Specimen						
How Bedded	HY[illegible]		HY[illegible]			
Length—inches	17.5	17.5	17.5	17.5		
Width—inches	7.5	7.5	7.5	7.5		
Height—inches	7.5	7.5	7.5	7.5		
Gross Area in Square Inches	131.25	131.25	131.25	131.25		
Net Area in Square Inches						
Total Crushing Strength—lbs	[illegible]	[illegible]	[illegible]	[illegible]		
Strength Per Square Inch—Gross	[illegible]	[illegible]	[illegible]	[illegible]		
Strength Per Square Inch—Net						
Required Strength						

ABSORPTION TEST

	#5	#6	#7	#8		
Weight, as received, lbs.	[illegible]	50.60	[illegible]	50.16		
Dry Weight—lbs.	[illegible]	48.58	[illegible]	[illegible]		
Wet Weight—lbs.	[illegible]	[illegible]	[illegible]	[illegible]		
Weight of Unit Immersed	[illegible]	25.70	[illegible]	25.[illegible]		
Weight, lbs. per cubic foot of Concrete	110.[illegible]	109.85	110.[illegible]	111.16		
Absorption, percent	[illegible]	9.7	9.4	[illegible]		
Absorption, lbs. per cubic foot of concrete	[illegible]	10.7	10.3	9.2		
Moisture Content, % of Total Absorption	[illegible]	20.1	[illegible]	[illegible]		

Remarks [illegible]

[illegible]

[illegible]

Reported to: [illegible]

THE HALLER TESTING LABORATORIES, Inc.

THE HALLER TESTING LABORATORIES

INCORPORATED

336 Leland Avenue
P. O. Box 45
Plainfield, N. J. 07061

TESTING INSPECTION
CONSULTATION

TEST REPORT ON BUILDING UNITS

Client [illegible] Concrete Products Corporation, [illegible], N.Y.

Project LILCO Nuclear Power Station, [illegible], N. Y.

Producer [illegible] Concrete Products Corporation

Kind & Type of Unit [illegible] - 8x8x18" - 2 Cell

Test for [illegible] Concrete Products Corporation

Report No. [illegible]-76 -[illegible] ([illegible]) Date 11/1[illegible]/76

COMPRESSION TEST

Identification	1	2	3	4		
Date Made						
Date Tested	11-1[illegible]-76	11-1[illegible]-76	11-1[illegible]-76	11-1[illegible]-76		
Age of Specimen						
How Bedded	HYD[illegible]		HY[illegible]			
Length—inches	17.5	17.5	17.5	17.5		
Width—inches	7.5	7.5	7.5	7.5		
Height—inches	7.5	7.5	7.5	7.5		
Gross Area in Square Inches	131.25	131.25	131.25	131.25		
Net Area in Square Inches						
Total Crushing Strength—lbs	1[illegible]	170,[illegible]10	185,200	1[illegible],[illegible]40		
Strength Per Square Inch—Gross	1,[illegible]	1,[illegible]01	1,[illegible]16	1,[illegible]71		
Strength Per Square Inch—Net						
Required Strength						

ABSORPTION TEST

	5	6	7	8		
Weight, as received, lbs.	[illegible]	[illegible]	[illegible]	[illegible]		
Dry Weight—lbs.	[illegible]	[illegible].48	[illegible]	[illegible].66		
Wet Weight—lbs.	[illegible]	[illegible]	[illegible]	[illegible]		
Weight of Unit immersed	[illegible]	1[illegible]	1[illegible]	[illegible]		
Weight, lbs. per cubic foot of Concrete	107.[illegible]	107.8	114.4	105.6		
Absorption, percent	9.6	9.[illegible]	7.6	[illegible].3		
Absorption, lbs. per cubic foot of concrete	10.3	10.04	8.7	10.2		
Moisture Content, % of Total Absorption	[illegible]	[illegible]	1[illegible].4	[illegible]		

Remarks Blocks tested in accordance [illegible]
[illegible] C-[illegible], [illegible]
[illegible]

[illegible] THE HALLER TESTING LABORATORIES, Inc.
[illegible] (1)

South Shore Brick Masons / 50 REDINGTON STREET • BAY SHORE, NEW YORK • 11706
INCORPORATED

17885 3

March 24, 1976

RECEIVED
MAR 25 1976
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York 11792

Att: Mr. R. L. Cusick
Resident Manager

Gentlemen:

Re: Shoreham Nuclear Power Station Unit No. 1
W.O. 48923 (CC-5-508)
Long Island Lighting Company
J.O. No. 11600.03

Attached herewith are the test reports for 8" Hollow lightweight Masonry Units and 4" 100% Solid High Density Concrete Masonry Units as manufactured by Sal Picone & Sons.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

Walter J Hawrys Jr

Walter J. Hawrys

WJH:fr
cc: Mr. D. F. Gifford
Encs.

NOTED MAR 29 1976

RECEIVED
MAR 2 1976
CONSTRUCTION OFFICE
SHOREHAM PROJECT

SHOREHAM NUCLEAR POWER STATION
UNIT-1

File Code	Serial No. 17885
Released to Files	

cc: Bob Bernard, F.Q.C. ✓

1

LONG ISLAND materials testing laboratories, inc.

60 ALBANY AVE. N. AMITYVILLE, N.Y. 11701 (516) [illegible] • 2026 HALPERIN AVE. BRONX, N.Y. 10461 (212) 597-2949
LONG ISLAND OFFICE • N.Y.C. OFFICE

MASONRY UNIT TEST REPORT

report no. 1
date 02-15-76

CLIENT Sal Picone and Sons, Inc.
PROJECT L.I.L.C.O., Shoreham, New York
CONTRACTOR -
SUPPLIER Client

SUBJECT: Compressive Strength and Unit Weight - ASTM C140

Manufacturer's Identification: 2 cell hollow Masonry Units
Actual Dimensions (WxHxL)..... 7.59 in. X 7.69 in. X 17.66 in.
Nominal Dimensions (WxHxL)..... 8 X 8 X 18
Gross Cross Sectional Area ... 134.04 square inches

COMPRESSION TESTS

LAB. NO.	SAMPLE NO.	TOTAL LOAD	COMPRESSIVE STRENGTH
9	1	191,000 lbs.	1425
10	2	183,000	1350
11	3	193,000	1440
12	4	204,000	1530
13	5	200,000	1490
Average			1450 PSI

ABSORPTION TESTS

LAB. NO.	SAMPLE NO.	PERCENT ABSORPTION	ABSORPTION-lbs.PCF
9	1	6.72	8.51
10	2	6.74	8.61
11	3	6.97	8.81
12	4	6.52	8.37
13	5	6.88	8.75
Average		6.77	8.61

AVERAGE NET AREA (%) 53.86
UNIT WEIGHT......... 127.13 pcf

NET VOLUME 0.3213 cf
GROSS VOLUME 0.5965 cf

All tests performed in accordance with ASTM specification C-140

REMARKS: [illegible]

Respectfully submitted,
LONG ISLAND MATERIALS TESTING LABORATORY, INC.

CHARLES E. [illegible]

[illegible]
copies: [illegible]

LONG ISLAND materials testing laboratories, inc.

LONG ISLAND OFFICE · BRONX, N.Y. · N.Y.C. OFFICE

MASONRY UNIT TEST REPORT

report no. 1
date March 15, 1976

CLIENT Sal Piccne & Sons, Inc.
PROJECT LILCO @ Shoreham, New York
CONTRACTOR -
SUPPLIER Client

SUBJECT:

COMPRESSIVE STRENGTH & UNIT WEIGHT - ASTM C140

Manufacturer's Identification: Tan 100% solid masonry units
Actual Dimensions (WxHxL)..... 3.63 in. x 7.50 in. x 15.63
Nominal Dimensions (WxHxL)..... 4 in. x 8 in. x 16
Gross Cross Sectional Area ... 56.74 square inches

COMPRESSION TESTS

LAB. NO.	SAMPLE NO.	TOTAL LOAD	COMPRESSIVE STRENGTH
14	1C	313,000	5,530 PSI
15	2C	290,000	5,250 PSI
16	3C	326,000	5,745 PSI
17	4C	331,000	5,835 PSI
18	5C	318,000	5,605 PSI
Average			5,590 PSI

ABSORPTION TESTS

LAB. NO.	SAMPLE NO.	PERCENT ABSORPTION	ABSORPTION-lbs.PCF
14	1A	4.67	6.67
15	2A	5.02	6.96
16	3A	4.46	6.50
17	4A	4.27	6.33
18	5A	4.51	6.59
Average		4.59	6.59

AVERAGE NET AREA (%) 99.71 NET VOLUME .2455 cf
UNIT WEIGHT......... 144.46 GROSS VOLUME .2462 cf

All tests performed in accordance with ASTM specification C-140

REMARKS: Units conform to type N ASTM C140

Respectfully submitted,
LONG ISLAND MATERIALS TESTING LABORATORY, INC.

Copies:

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS

File
Order 1- -1-43

August 5, 1980

Report C-471
Page 1

4

[illegible] Company
[illegible] Engineering Corp.

[illegible], New York 11792

Reference: Job No. 11600.50
SNPS -QC-1610

Tests on Masonry Sand

[illegible]

[illegible] report herein results of tests made on a sample of masonry sand submitted [illegible], 1980, marked as shown in the following tabulations:

[illegible] samples were tested per instructions contained in your letter of June 18, 1980.

Test Results

[illegible]regate - Masonry Sand

[illegible] Analysis ASTM 144-75

Sieve Size	Percent Passing
#4	100
#8	99.9
#16	95.4
#30	71.7
#50	22.2
#100	2.6
Pan	0.0

Organic Impurities ASTM C-404-70

[illegible] Plate No. - 1

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement & Concrete Department

4/5

ROBERT W. HUNT COMPANY
ENGINEERS

INTERNATIONAL ORGANIZATION · INSPECTION · TESTS AND CONSULTATION

EXECUTIVE OFFICES: CHICAGO, ILLINOIS 60607 · U.S.A. · CABLE ADDRESS "ROBHUNT"

ADDRESS REPLY TO • 155 AVENUE OF THE AMERICAS • NEW YORK, NEW YORK 10013 • 212/741-0650

IN REPLY REFER TO
File 5059
Order 1-C-12841-37

June 17, 1977

Lab Report 5073 (K.Z.)
Page 1 of 2

RECEIVED
JUN 22 1977
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Re: Aggregate Tests for Stone & Webster Engineering Corp.
Purchase Order No. 313218

Stone & Webster Engineering Corp.
P.O. Box 604, N. Country Road
Wading River, New York 11792

Attention: Mr. R.L. Bernard, Superintendent of Field Quality Control, SNPS-1

Gentlemen:

We report result of Aggregate Test on sample delivered to our Laboratory on June 8, 1977. Material is identified as follows:

Fine Aggregate: Masonry Sand tagged "Stone & Webster Engineering Corp."

Sieve Analysis: ASTM C-144 & C-404
Grading by Weight

Tests on Aggregates

FILE CODE - S-HI-390
NAME [signature]
DATE 1/23/78

U. S. Standard Sieve Size	Roanoke Marboro Cumulative Per Cent Retained	Per Cent Passing	ASTM C-144-76 Specification Limits Per Cent Passing	ASTM C- Spec. L. Per C. Pass.
1"	00	100		
3/4"	00	100		
1/2"	00	100		
3/8"	00	100		
No. 4	00	100	100	100
No. 8	00	100	95 to 100	95 to
No.16	02	98	70 to 100	N/A
No.30	21**	79*	40 to 75	N/A
No.50	79**	21	10 to 35	N/A
No.100	97	03	2 to 15	0 to 2
Fineness Modulus 1.99				
# 200		2.03		0 to

* Sieve No.30 - 79% passing, four (4)% above limit. (40 - 75%)
** The aggregates have more than 50%(58%) retained between sieve #30 and #50 (limit 50%).

NOTED JAN 23 1978 [R.R. BARNES]

Continued......

FILE NO. 5059
ORDER 1-C-12841-37

June 17, 1977

Lab. REPORT 5073 (N.Z.)
PAGE 2 of 2

Specification Limits

Organic Impurities: ASTM C-40-70 (Re-approved 1975)
Color Value Plate #1 No darker than the Standard

Respectfully submitted,
ROBERT W. HUNT COMPANY

Berezowski
T. E. Berezowski, Manager
New York District

TEB:hb

Orig. & 3 - Client
2 - Chicago Org. Acctg.
1 - Chicago Org. Attn: Mr. D. Blank
3 - New York Files

NOTED JAN 23 1978 R.A. CARVEL

~~[illegible]~~ RA 1/23/78

Due to contractual agreements the contractor has agreed to supply masonry sand in compliance with ASTM C144-70 rather than the 1976 revision. This sand conforms to ASTM C144-70 even though it does not conform to ASTM C144-76. Therefore this masonry sand is acceptable for use on this site.

[illegible] 1/23/78

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

File 5059-8
Order 15-C-12841-66

June 18, 1981

Report D-548
Page 1

6

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, New York 11792

Reference: J.O. No. 11600.50
SNPS-QC 1827

Material Tested: Water in use at Shoreham Nuclear Power Station, Unit No. 1.

Gentlemen:

We herein submit results of Mortar Compressive Strength results using the above referenced mix water which was received in our laboratory on May 11, 1981.

Tests were conducted in accordance with ASTM C 109-64 and per Stone & Webster letter of May 5, 1981.

The results were as follows:

COMPRESSIVE STRENGTH (2 IN. CUBES) ASTM C-109-64

		Control Mix	Test Mix
7 day Strength, P.S.I.		3750	3700
		3750	3750
Percent of Control: 99.2		3750	3700
	Average	3750	3720
28 day Strength, P.S.I.		4700	4750
		4750	4700
Percent of Control: 99.8		4750	4700
	Average	4730	4720

Water tested is of satisfactory quality.

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush
Director of Laboratories

GEM/bjt

1 cc: Stone & Webster, Attn: Mr. H. Calabro
1 cc: Robert W. Hunt Co., Attn: Mr. Berezowski

ROBERT W. HUNT COMPANY
810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS 60607

File 5059-8
Order 15-C-12841-56

July 10, 1979

Report B- 485
Page 1

6

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, N.Y. 11792

Reference: J.O # 11600.50
SNPS-QC-1335

Material Tested: Water in use at Shoreham Nuclear Power Station. Unit I.

Gentlemen:

We herein submit results of Mortar Compressive Strength results using the above referenced mix water which was received in our laboratory on June 7, 1979.

Tests were conducted in accordance with ASTM C 109-64 and per Stone & Webster letter of May 16, 1979.

The results were as follows:

COMPRESSIVE STRENGTH (2 IN. CUBES) ASTM C-109-64

		Control Mix	Test Mix
7 day Strength, P.S.I.		3950 3950 4000	4000 3950 4000
	Average	3967	3984
Percent of Control 100.4			
28 day strength, P.S.I.		5200 5150 5150	5100 5150 5100
	Average	5167	5117

Percent of Control 99.0
Water tested is of satisfactory quality.

1cc: R. L. Cusick, Stone & Webster
1cc: J.P. Allen, Stone & Webster
4cc: T.J. Burke, Long Island Lighting
1cc: R. L. Bernard, Stone & Webster
1cc: New York Office
1cc: Quality Assurance, Chicago

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement & Concrete Department

CEM/jlp

Birmingham Houston New York Pittsburgh San Francisco London, Eng.

ROBERT W. HUNT COMPANY

810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607

6

File 5059-8
Order 15-C-12541-53

December 14, 1978

Report A-944
Page 1

FILE CODE SH1-066
NAME RAlcavel
DATE 12/29/78

Long Island Lighting
c/o Stone and Webster Engineering Corp.
Post Box 604
Wading River, N. Y. 11792

Re: J. O. 11600.50
SNPS - QC - 1203

Material Tested: Plastic bottle marked "Water from site S.N.O.S. Unit" Stone & Webster P.O. Box 604, N. Country Rd. Wading River, N. Y.

Gentlemen:

We herein submit results of Mortar Compressive Strength results using the above referenced mix water which was recieved in our laboratory on November 8, 1978.

Tests were conducted in accordance with ASTM C 109-64 and per Stone & Webster's Letter of November 8, 1978.

The results were as follows.

Compressive Strength (2 in. cubes) ASTM C-109-64

7 day strength, P.S.I.	Control Mix	Test Mix
	3750	3700
	3700	3700
	3650	3900
Average	3700	3767

RECEIVED
DEC 19 1978
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Percent of Control 101.8

28 day results will be reported January 2, 1978.

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush Manager
Cement & Concrete Department

GEM/jlp

Birmingham Houston New York Pittsburgh San Francisco London, Eng.

ROBERT W. HUNT COMPANY

810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS 60607

-6

Report A-944-1

File 5059-8
Order 15-C-12841-53

January 5, 1979

RECEIVED
JAN 10 1979
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Long Island Lighting
c/o Stone and Webster Engineering Corp.
Post Box 604
Wading River, N. Y. 11792

Re: J. O. 11600 50
SNPS - QC - 1203

Materal Tested: Plastic bottle marked "Water from site S.N.O.S. Unit" Stone & Webster P.O. Box 604, N. Country Rd, Wading River, N. Y.

Gentlemen:

We supplement our Report A-944, dated Dec. 14, 1978, with the following information.

Compressive Strength (2 in. Cubes) Comparison

28 Day Strength P.S.I.	Sample Water (Test Mix)	Distilled Water (Control Mix)
	1) 4900	1) 5000
	2) 5000	2) 4950
	3) 5000	3) 4900
	Average 4976 psi	Average 4950 psi

Percent of control - 100.4

Results of 28 days - satisfactory

FILE CODE SH1-066
NAME RAlcavel
DATE 1-11-79

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush, Manager
Cement & Concrete Department

GEM/cfp
1cc: R. L. Cusick
[illegible]
4cc: [illegible] J. Burke
1cc: R. L. Barnard

South Shore Brick Masons / [illegible] STREET • BAY SHORE, NEW YORK • 11706
INCORPORATED

March 9, 1976

6

Stone & Webster
P.O. Box 604
Wading River, New York 11792

Gentlemen:

Re: Shoreham Nuclear Power Station Unit No. 1
Furnish & Erect Concrete Masonry
W.O. 48923 (CC-5-508)

The following are the proposed ingredients to be used in the mix design on this project:

MORTAR To conform to ASTM C-270

1 Cubic ft. of Lone Star Portland Cement Type II conforming to ASTM C-150 and manufactured by Lone Star Industries of Nazareth, Pa.

1/2 Cubic ft. of Miracle Lime Type S as manufactured by G.W. H. Corson of Plymouth Meeting, Pa. Conforming to ASTM C-207.

4.5 Cubic ft. of sand as supplied by Mason Mix, Inc. of Jamaica, N.Y. and conforming to ASTM C-144

Water - as supplied by Purchaser.

GROUT To conform to ASTM C-476.

Fine grout:
1 Cubic ft. of Lone Star Portland Type II conforming to ASTM-C-150 and manufactured by Lone Star Industries of Nazareth, Pa.

.1 Cubic ft. of Miracle Lime Type S as manufactured by G. & W.H. Corson of Plymouth Meeting, Pa. Conforming to ASTM C-207.

3.3 Cubic ft. aggregate Size 1 as supplied by Roanoke & Marbro Sand & Gravel Corp. of Middle Island, N.Y. and conforming to ASTM C-404.

Course Grout:
1 cubic ft. of Lone Star Portland Type II conforming to ASTM C-150 as manufactured by Lone Star Industries of Nazareth, Pa.

.1 Cubic ft. of Miracle Lime Type S as manufactured by G. & W.H. Corson of Plymouth Meeting, Pa. Conforming to ASTM C-207.

3.3 Cubic ft. aggregate Size I as supplied by Roanoke & Marbro Sand & Gravel Corp. of Middle Island, N.Y. and conforming to ASTM C-404.

2.2 cubic ft. aggregate Size ~~7~~ 8 as supplied by Roanoke & Marbro Sand & Gravel Corp. of Middle Island, N.Y. and conforming to ASTM C-404.

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

[signature]

Walter J. Hawrys

WJH:fr

(516) 665-5800

ROBERT W. HUNT COMPANY
ENGINEERS
INTERNATIONAL ORGANIZATION · INSPECTION · TESTS AND CONSULTATION
EXECUTIVE OFFICES: CHICAGO, ILLINOIS 60607 • U.S.A. • CABLE ADDRESS "ROBHUNT"

810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607 • 312/922-0872

FILE NO 5059-8 June 18, 1976 REPORT 3475 Revised
ORDER 1-C-12841 ** Revised June 29, 1976 PAGE 1

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
P. O. Box 604
Wading River, NY 11792

12

COPY

Reference: Concrete Masonry Testing

Job No: 11600.73
SNPS-3286

Gentlemen:

We herein report results of tests made on mateials submitted for compliance with the project specifications of the above noted job.

RECEIVED
JUL 02 1976
FIELD QUALITY CONTROL
SHOREHAM PROJECT

AGGREGATE TESTS

SAND - ASTM C144

GRADATION (ASTM C144)

U. S. STANDARD SIEVE SIZE	PER CENT PASSING	SPECIFICATION LIMITS
No. 4	100	100
No. 8	100	95 to 100
No. 100	2	25 Max.
No. 200	1	10 Max.
Amount of Material Finer Than No. 200 Sieve % (ASTM C117)	0.5	--
Organic Impurities (ASTM C40) - Plate #1		Not Darker than Plate 3

(Continued)

Long Island Lighting Company

FINE AGGREGATE SIZE #1 (ASTM C404)

GRADATION

U.S. STANDARD SIEVE SIZE	PER CENT PASSING	SPECIFICATION LIMITS
3/8"	100	100
#4	99	95 to 100
#8	93	80 to 100
#16	81	50 to 85
#30	58	25 to 60
#50	26	10 to 30
#100	02	2 to 10
MATERIAL FINER THAN #200 SIEVE (ASTM C117) %	1.4	--

COARSE AGGREGATE SIZE #8 (ASTM C404) **

GRADATION

1/2"	100	100
3/8"	98	85 to 100
*No. 4	34	10 to 30
No. 8	3	0 to 10
No. 16	2	0 to 5
MATERIAL FINER THAN #200 SIEVE (ASTM C117)	0.4	--

*Note: Deviation from specification limits.
CK Test - 35% Passing

The above test complied with ASTM Specification except as noted.

Respectfully submitted,

ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Cement and Concrete Department

**- Revised to show Coarse Aggregate #8 instead of Fine Aggregate #1.

GEM:lp

(Continued)

MORTAR MIX PROPORTIONS AND TEST DATA

Water/Cement Ratio -		0.63		0.68		0.73	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
PROPORTIONS:							
Portland Cement, Lone Star Type I -		1.00	94.0	1.00	94.0	1.00	94.0
Hydrated Lime, Miracle Type S -		0.50	20.0	0.50	20.0	0.50	20.0
Fine Aggregate, Mason Sand (ASTM C-144) -		4.50	360.0	4.50	360.0	4.50	360.0
Water	-	-	59.2	-	63.8	-	68.6
Flow (Consistency)	Per Cent	103.0	-	114.0	-	136.0	-
Temperature F.	Degrees	76	-	76	-	74	-
Weight (Theoretical)	Per Cu. Ft.	-	140.30	-	139.33	-	137.71
Yield (Theoretical)		3.80	-	3.86	-	3.94	-

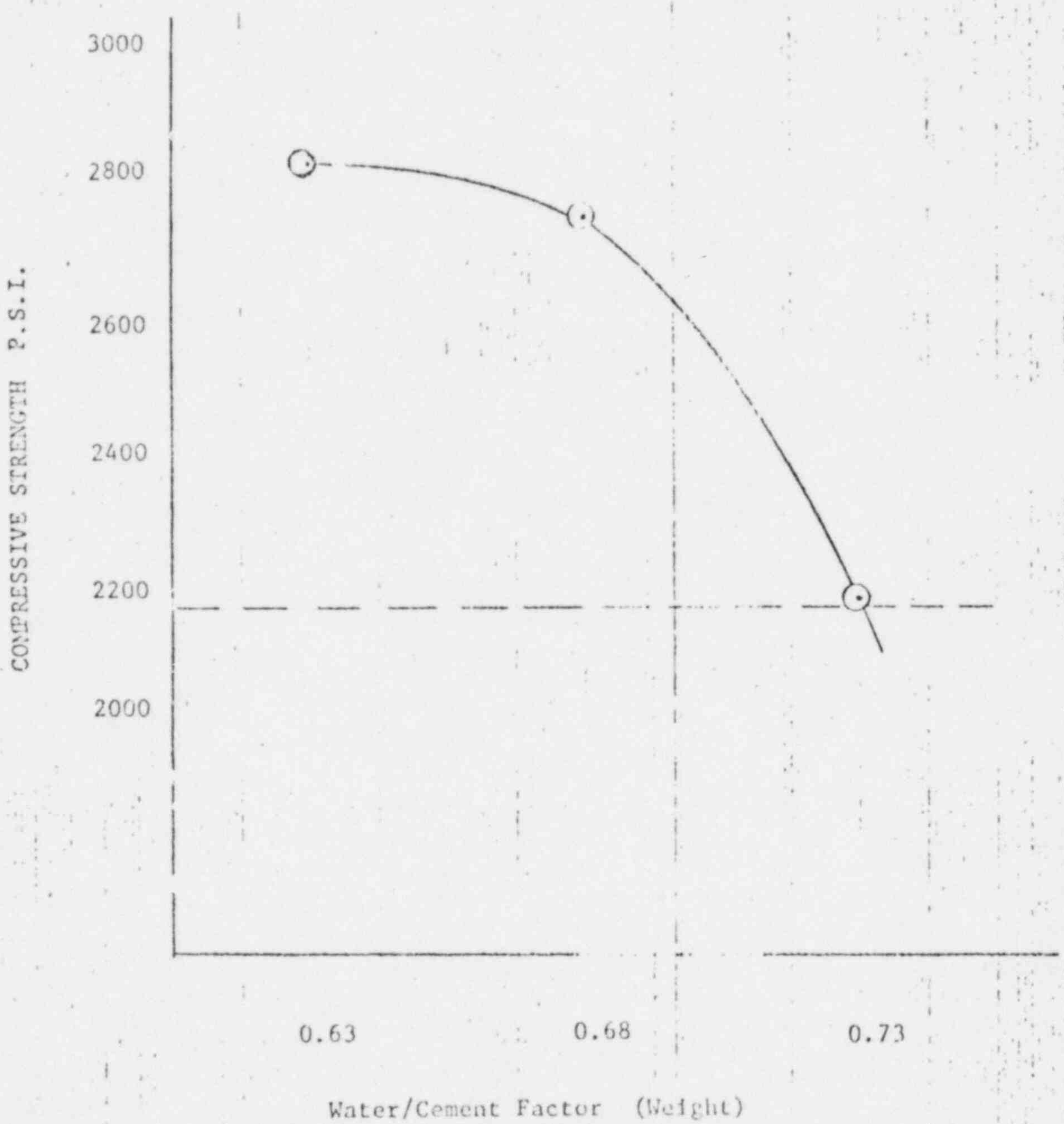
COMPRESSIVE STRENGTH P.S.I.
(Standard 2" X 2" X 2" Cubes)

	0.63	0.68	0.73
Age - 7 Days	1775	1800	1338
	1763	1795	1350
	1763	1795	1338
Average	1767	1797	1342
Age - 28 Days	2875	2750	2225
	2825	2775	2200
	2825	2775	2200
Average	2842	2767	2208

Shorem Nuclear Power Station Unit #1
ECT.

Mortar Mix - ASTM 270

Age at Test 28 - Days



June 21, 1976
** Revised June 29, 1976

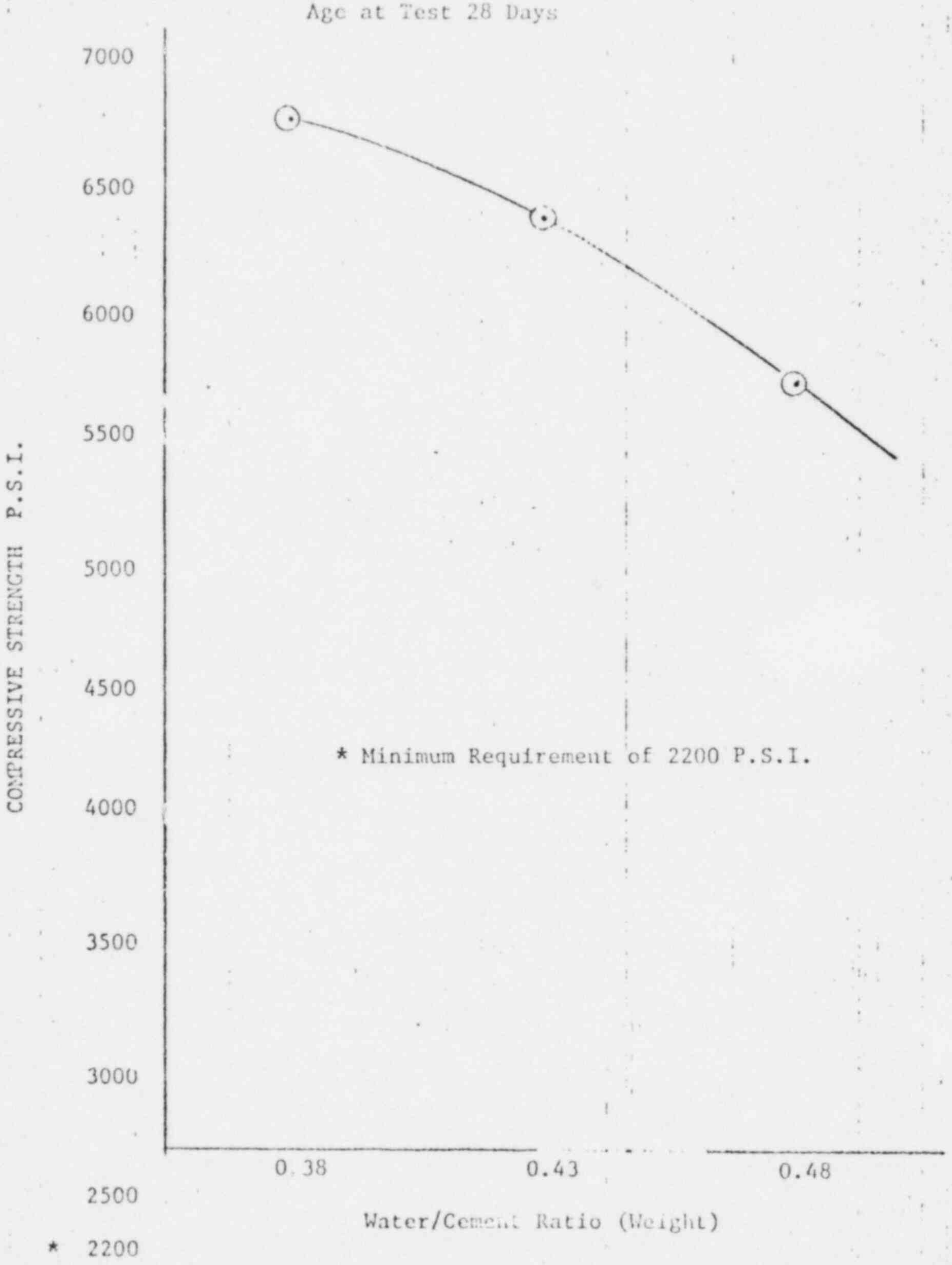
NE GROUT MIX PROPORTIONS AND TEST DATA:

ater/Cement Ratio		0.38		0.43		0.48	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
roportions:							
rtland Cement Lone Star Type I		1.00	94.0	1.00	94.0	1.00	94.0
drated Lime, Miracle Type S		0.10	4.0	0.10	4.0	0.10	4.0
ne Aggregate, Size #1(ASTM C404)		3.30	264.0	3.30	264.0	3.30	264.0
ater		-	35.70	-	40.0	-	45.1
low (Consistency)	Per Cent	96.0	-	107.0	-	134.0	-
emperature F.	Degrees	74	-	74	-	74	-
eight (Theoretical)	Per Cu. Ft.	-	147.30	-	145.13	-	142.84
ield (Theoretical)		2.70	-	2.77	-	2.85	-

OMPRESSIVE STRENGTH P.S.I.
Standard 2" X 2" X 2" Cubes)

	0.38	0.43	0.48
Age - 7 Days	5050	4500	3900
	5100	4450	3800
	5025	4525	3850
Average	5058	4483	3850
Age - 28 Days	6800	6450	5650
	6850	6450	5700
	6825	6400	5675
Average	6825	6433	5675

Shorem Nuclear Power Station Unit #1
ECT.
Fine Grout Mix - ASTM C476
Age at Test 28 Days



COURSE GROUT MIX PROPORTIONS AND TEST DATA:

Water/Cement Ratio		0.65		0.70		0.75	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
Proportions							
Portland Cement, Lone Star Type I		1.00	94.00	1.00	94.00	1.00	94.00
Hydrated Lime, Miracle Type S		0.10	4.00	0.10	4.00	0.10	4.00
Fine Aggregate, Size #1(ASTM C-404)		3.30	264.00	3.30	264.00	3.30	264.00
Coarse Aggregate, Size #8(ASTM C-404)		2.20	330.00	2.20	330.00	2.20	330.00
Water		-	60.90	-	65.60	-	70.32
Slump (Consistency)	Inches	2.00	-	5.25	-	8.00	-
Temperature F	Degrees	76	-	78	-	76	-
Weight (Theoretical)	Per Cu. Ft.	-	147.05	-	145.97	-	144.65
Yield (Theoretical)		5.12	-	5.19	-	5.27	-

COMPRESSIVE STRENGTH P.S.I.
(Standard 6 X 12 cylinder)

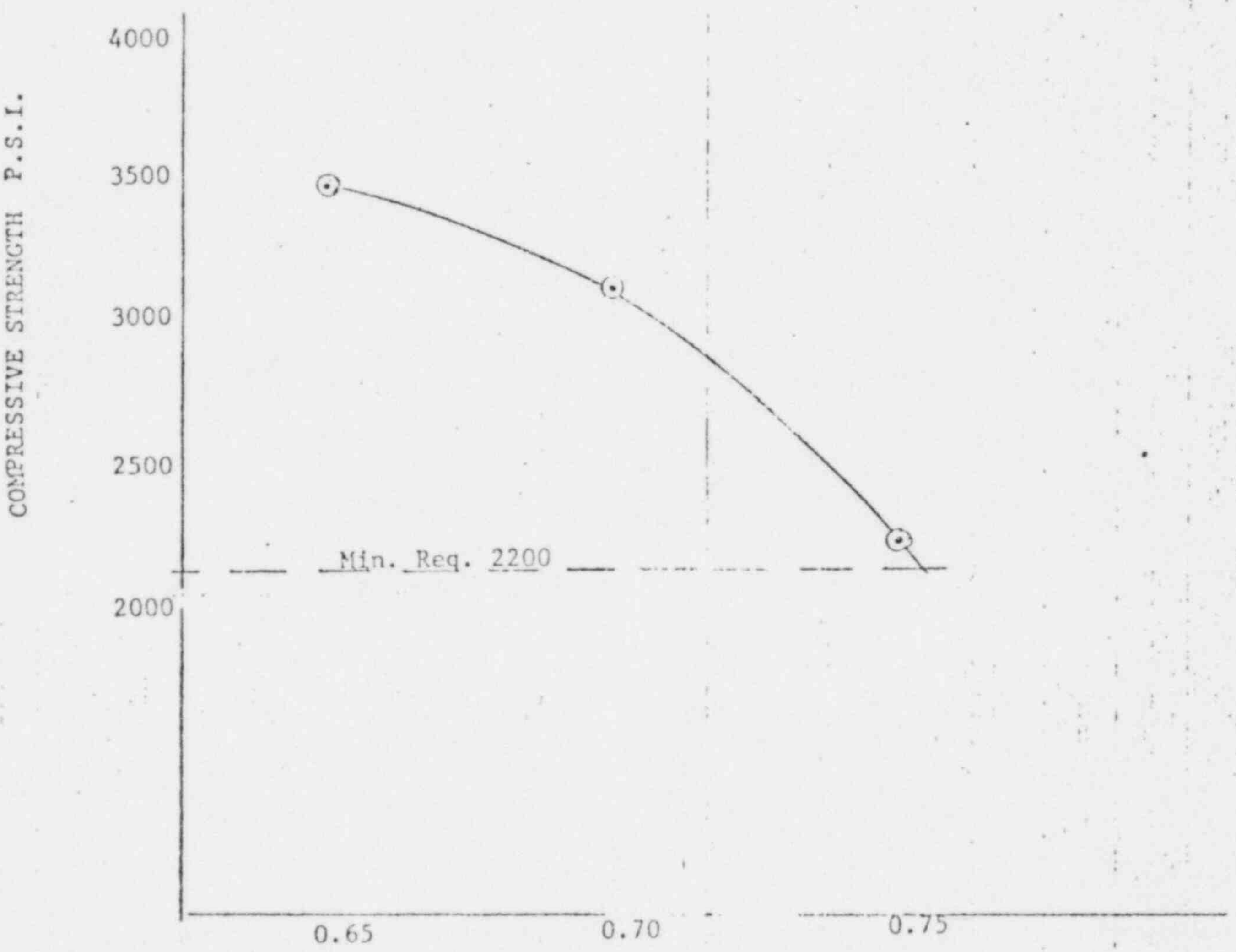
	0.65	0.70	0.75
Age - 7 Days	2635	2175	1278
	2264	2122	1167
	2317	2069	1167
Average	2405	2122	1204
Age - 28 Days	3555	3130	2352
	3378	3024	2229
	3573	3325	2299
Average	3502	3160	2293

File No. 5059-8
Order No. 1-C-12841 ** Revised June 29, 1976

Report 3475 ** Revised
Page 8

Shorem Nuclear Power Station Unit #1
ECT.

Coarse Grout Mix - ASTM C476
Age at Test 28 Days



ROBERT W. HUNT COMPANY
ENGINEERS
INTERNATIONAL ORGANIZATION - INSPECTION - TESTS AND CONSULTATION
EXECUTIVE OFFICES: CHICAGO, ILLINOIS 60607 • U.S.A. • CABLE ADDRESS "ROBHUNT"
810 SOUTH CLINTON STREET • CHICAGO, ILLINOIS 60607 • 312/922-0872

FILE NO. 5059-8
ORDER 1-C-12841

June 18, 1976

REPORT 3475
PAGE 1

12

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
P.O.B. 604
Wading River, NY 11792

Reference: Concrete Masonry Testing

Job No: 11600.73
SNPS-3286

Gentlemen:

We herein report results of tests made on materials submitted for compliance with the project specifications of the above noted job.

AGGREGATE TESTS

SAND - ASTM C144

GRADATION (ASTM C144)

U.S. STANDARD SIEVE SIZE	PER CENT PASSING	SPECIFICATION LIMITS
No. 4	100	100
No. 8	100	95 to 100
No. 100	2	25 Max.
No. 200	1	10 Max.
Amount of Material Finer Than No. 200 Sieve % (ASTM C117)	0.5	-
Organic Impurities (ASTM C40)	Plate #1	Not Darker than Plate 3

(Continued)

FILE NO. 5059-8
ORDER 1-C-12841

June 1?, 1976

REPORT 3475
PAGE 2

Long Island Lighting Company

FINE AGGREGATE SIZE #1 (ASTM C404)

GRADATION

U. S. Standard Sieve Size	Per Cent Passing	Specification Limits
3/8"	100	100
#4	99	95 to 100
#8	93	80 to 100
#16	81	50 to 85
#30	58	25 to 60
#50	26	10 to 30
#100	02	2 to 10
MATERIAL FINER THAN #200 SIEVE (ASTM C117) % -----	1.4	-

C.A 8

FINE AGGREGATE SIZE #1 (ASTM C404)

GRADATION

U. S. Standard Sieve Size	Per Cent Passing	Specification Limits
1/2"	100	100
3/8"	98	85 to 100
*No. 4	34	10 to 30
No. 8	3	0 to 10
No. 16	2	0 to 5
MATERIAL FINER THAN #200 SIEVE (ASTM C117) -------	0.4	-

*Note: Deviation from specification limits.
CK. Test = 35% Passing

The above test complied with ASTM Specification except as noted.

Respectfully submitted,

ROBERT W. HUNT COMPANY

J. E. Matoush

C. E. Matoush, Manager
Cement & Concrete Department

The C.A SIZE #8 ASTM 404
is not approved. Informed
Const'n & Contractor about This Problem.
Requested to get new material for
testing of acceptance of Matl.
S. S. Pamu 6/28/76

MORTAR MIX PROPORTIONS AND TEST DATA

Water/Cement Ratio -		0.63		0.68		0.73	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
PROPORTIONS:							
Portland Cement, Lone Star Type I -		1.00	94.0	1.00	94.0	1.00	94.0
Hydrated Lime, Miracle Type S -		0.50	20.0	0.50	20.0	0.50	20.0
Fine Aggregate, Mason Sand (ASTM C-144) -		4.50	360.0	4.50	360.0	4.50	360.0
Water	-	-	59.2	-	63.8	-	68.6
Flow (Consistency)	Per Cent	103.0	-	114.0	-	136.0	-
Temperatrue F.	Degrees	76	-	76	-	74	-
Weight (Theoretical)	Per Cu. Ft.	-	140.30	-	139.33	-	137.71
Yield (Theoretical)		3.80	-	3.86	-	3.94	-

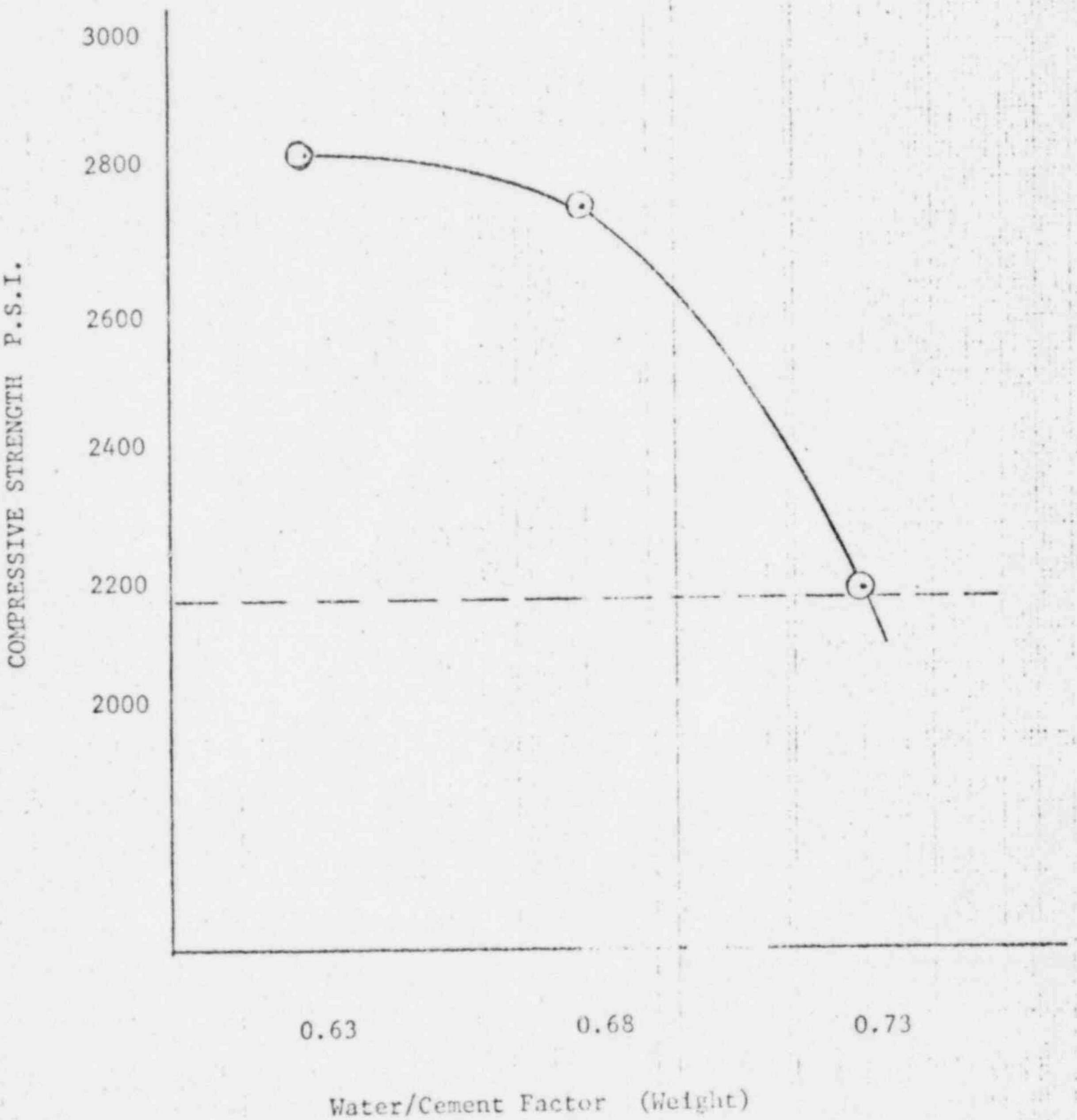
COMPRESSIVE STRENGTH P.S.I.
(Standard 2" X 2" X 2" Cubes)

	0.63	0.68	0.73
Age - 7 Days	1775	1800	1338
	1763	1795	1350
	1763	1795	1338
Average	1767	1797	1342
Age - 28 Days	2875	2750	2225
	2825	2775	2200
	2825	2775	2200
Average	2842	2767	2208

Shorem Nuclear Power Station Unit #1
ECT.

Mortar Mix - ASTM 270

Age at Test 28 - Days



FINE GROUT MIX PROPORTIONS AND TEST DATA:

Water/Cement Ratio		0.38		0.43		0.48	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
Proportions:							
Portland Cement Lone Star Type I		1.00	94.0	1.00	94.0	1.00	94.0
Hydrated Lime, Miracle Type S		0.10	4.0	0.10	4.0	0.10	4.0
Fine Aggregate, Size #1(ASTM C404)		3.30	264.0	3.30	264.0	3.30	264.0
Water		-	35.70	-	40.0	-	45.1
Flow (Consistency)	Per Cent	96.0	-	107.0	-	134.0	-
Temperature F.	Degrees	74	-	74	-	74	-
Weight (Theoretical)	Per Cu. Ft.	-	147.30	-	145.13	-	142.84
Yield (Theoretical)		2.70	-	2.77	-	2.85	-

COMPRESSIVE STRENGTH P.S.I.
(Standard 2" X 2" X 2" Cubes)

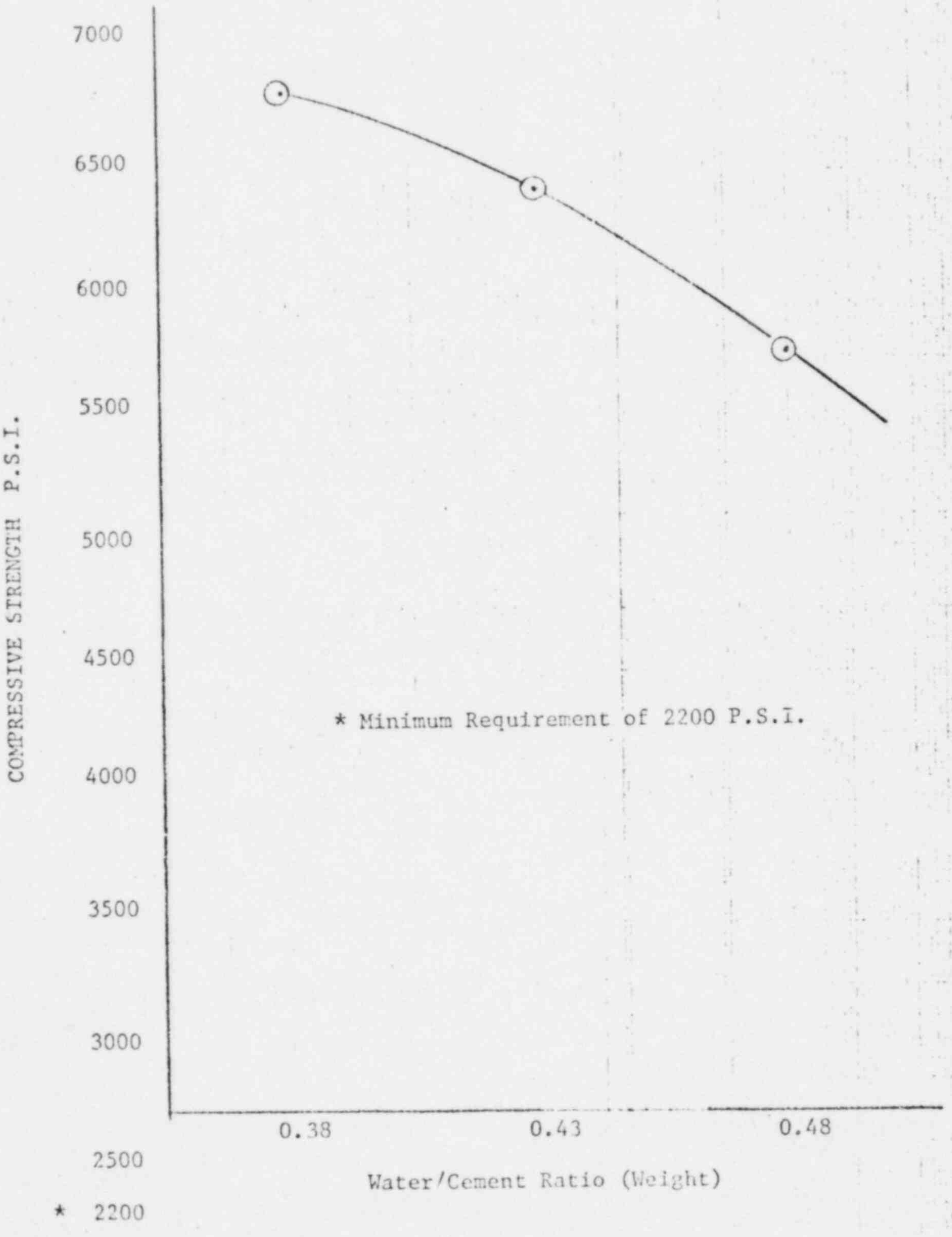
	0.38	0.43	0.48
Age - 7 Days	5050	4500	3900
	5100	4450	3800
	5025	4525	3850
Average	5058	4483	3850
Age - 28 Days	6800	6450	5650
	6850	6450	5700
	6825	6400	5675
Average	6825	6433	5675

ROBERT W. HUNT COMPANY, Engineers

File No. 5059-8
Order No. 1-C-12841

Report 3475
Page 6

Shorem Nuclear Power Station Unit #1
ECT.
Fine Grout Mix - ASTM C476
Age at Test 28 Days



COURSE GROUT MIX PROPORTIONS AND TEST DATA:

Water/Cement Ratio		0.65		0.70		0.75	
		VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.	VOLUME Cu. Ft.	WEIGHT Lbs.
Proportions							
Portland Cement, Lone Star Type I		1.00	94.00	1.00	94.00	1.00	94.00
Hydrated Lime, Miracle Type S		0.10	4.00	0.10	4.00	0.10	4.00
Fine Aggregate, Size #1(ASTM C-404)		3.30	264.00	3.30	264.00	3.30	264.00
Coarse Aggregate, Size #8(ASTM C-404)		2.20	330.00	2.20	330.00	2.20	330.00
Water		-	60.90	-	65.60	-	70.32
Slump (Consistency)	Inches	2.00	-	5.25	-	8.00	-
Temperature F	Degrees	76	-	78	-	76	-
Weight (Theoretical)	Per Cu. Ft	-	147.05	-	145.97	-	144.65
Yield (Theoretical)		5.12	-	5.19	-	5.27	-

COMPRESSIVE STRENGTH P.S.I.
(Standard 6 X 12 cylinder)

	0.65	0.70	0.75
Age - 7 Days	2635	2175	1278
	2264	2122	1167
	2317	2069	1167
Average	2405	2122	1204
Age - 28 Days	3555	3130	2352
	3378	3024	2229
	3573	3325	2299
Average	3502	3160	2293

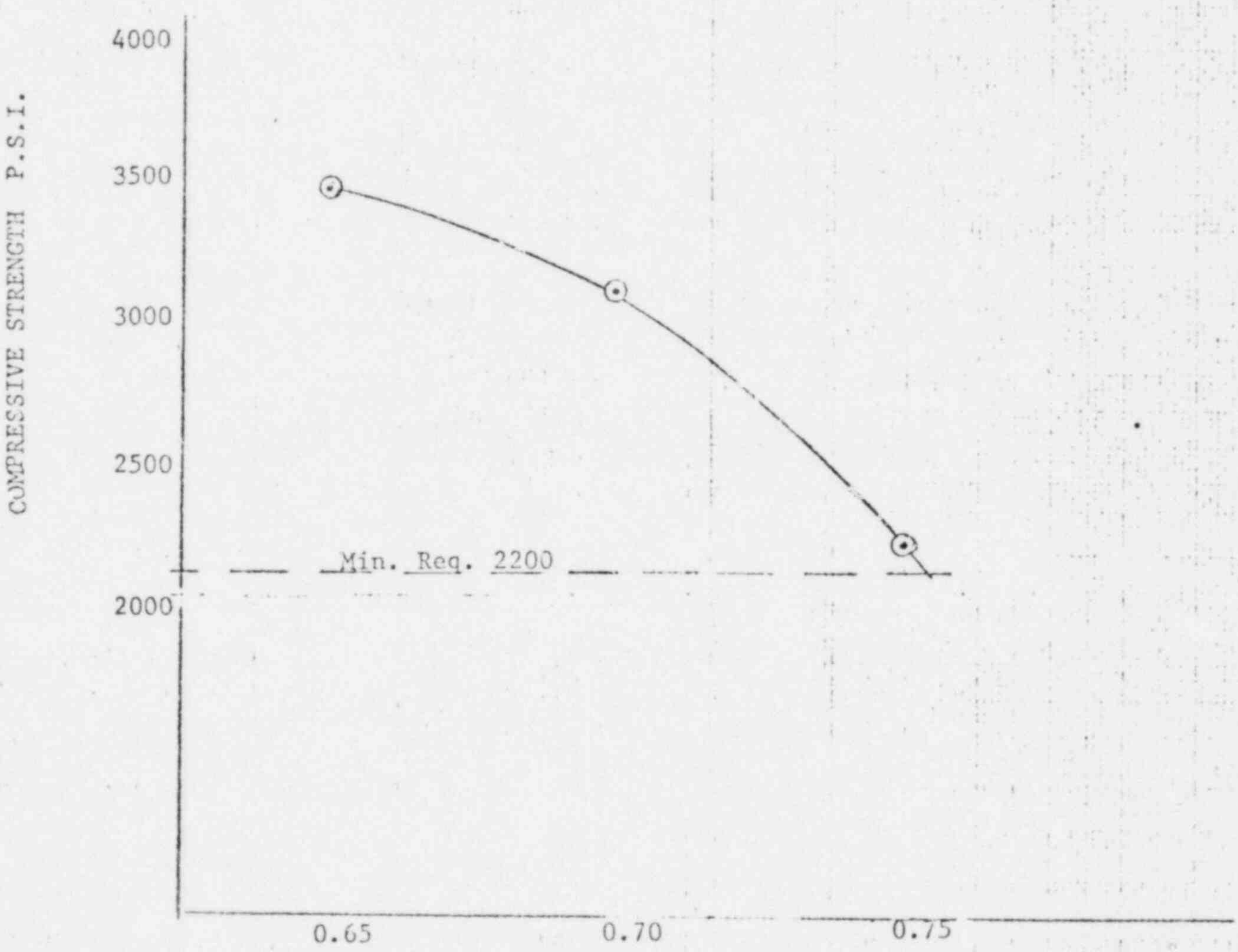
ROBERT W. HUNT COMPANY, Engineers

File No. 5059-8
Order No. 1-C-12841

Report 3475
Page 8

Shorem Nuclear Power Station Unit #1
ECT.

Coarse Grout Mix - ASTM C476
Age at Test 28 Days



17

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY D Hoffman DATE 12-2-80 PROJECT SNPS-1 JOB ORDER NO 11660.50
PERFORMED BY D Hoffman DATE 12-4-80 SOURCE (S) Roanoke Marboro Masonry Sand #1

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"				
3/8"				
NO 4				
NO 8				
NO 16				
PAN				

N/A

FINE AGGREGATE MS-S.5

4 ~~3/8"~~	0	0	100	100
8 ~~NO 4~~	6.3	1	99	95-100
16 ~~NO 8~~	81.5	12	88	—
30 ~~NO 16~~	279.0	40	60	—
50 ~~NO 30~~	581.8	84	16	—
100 ~~NO 50~~	666.5	96	4	0-25
200 ~~NO 100~~	678.8	98	2	0-10
PAN	690.7	—	—	—
FINENESS MODULOUS	—	2.33	—	—

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 Wash	12-4-80	1.7	PASS
Colorimetric	12-4-80	<1	PASS

REMARKS: Test results conform to ASTM C144, C117, C40

Sieve analysis done in two parts

M&TE #2-31-25

Traced over By- K Rena 2/3/81

[illegible]

4

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY R. Thompson DATE 11-17-77 PROJECT SNPS-1 SPEC NO. [illegible]
REPORTED BY J. Montalto DATE 11-18-77 MASON MIX

MS-14

SIEVES	WT RET	CUMULATIVE	% PASSING	SPECS % PASSING
3"				
1 1/2"				
1"				
3/4"				
1/2"			N	
3/8"			A	
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE

4	0	0	100	100
8	4.2	1	99	95-100
16	32.1	6	—	—
30	147.0	27	—	—
50	423.9	79	—	—
100	520.2	97	3	0-25
	532.3	99.50	0.50	0-10
	532.6			

-200 WASH 11-18 <.44 SAT
COLORIMETRIC 11-15 <1 SAT

REMARKS MATERIAL meets ASTM SPEC C-144, C117, & C40
MATERIAL WAS TESTED IN TWO PARTS.

TRACED OVER BY - [signature]
7-27-81

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

T-7-22
Sample Location
North Coordinate N/A
East Coordinate
Elevation
Scale No.

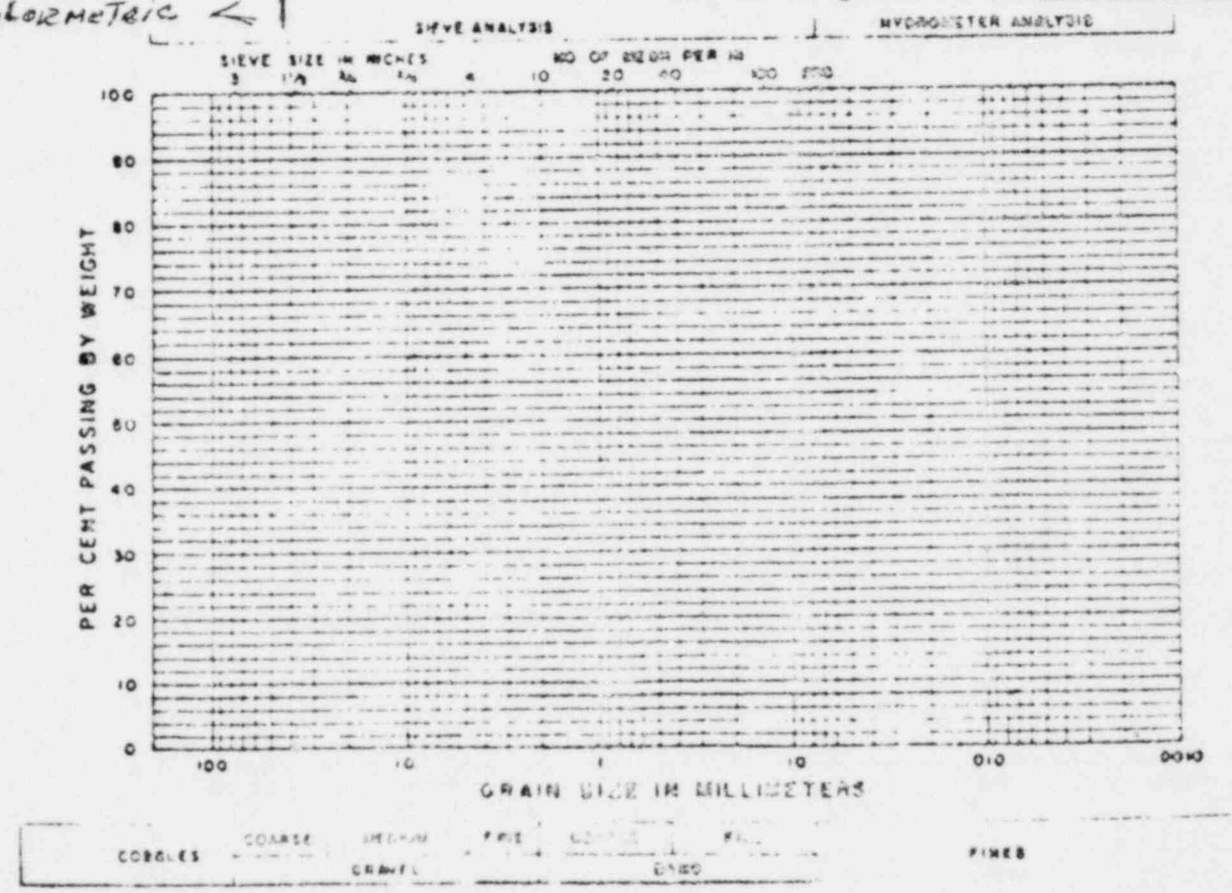
Date 6/11/80 J.O.No. 11600.50
Project Long Island Lighting Company
Site Shoreham Power Station-Unit #1
Inspector

Material Description or Proctor Designation MASON MIX INC. MS-24

Sieve US Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
4	—	0	0	100	100
8	—	4.1	1	99	95-100
16	—	28.9	5	95	—
30	—	155.2	25	75	—
50	—	484.8	78	22	—
100	—	602.8	96	4	0-25
Pan	—	620.0			

-200 WASH .88%
COLORMETRIC < 1

Wt. of Original Sample 625.5



TRACED OVER BY
[signature] 7/27/81

T-S-33

FILE CODE SN 1-
NAME
DATE

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY AT DATE 9-28-79 PROJECT SNPS-1 JOB ORDER NO
PERFORMED BY AT DATE 10-2-79 SOURCE (S) SEE BELOW

Source Roanok, Marburg COARSE AGGREGATE SIZE DESIGNATION CA 89-7

SIEVES		WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
	~~2"~~				
	~~1 1/2"~~				
	~~1"~~				
1/2	~~3/4"~~	0	0	0	100
3/8	~~1/2"~~	191	8	92	90-100
4	~~3/8"~~	1874	79	21	20-55
8	~~No 4~~	2202	93	7	5-30
16	~~NO 8~~	2299	97	3	0-10
30	~~NO 16~~	2310	97	3	0-5
	PAN	2376			

Source - Mason Mix FINE AGGREGATE MS-23

3/8"	0.0	0	100	100
NO 4	0.0	0	100	100
NO 8	9.1	1	99	95-100
NO 16	33.5	5	95	—
NO 30	224.7	33	67	—
NO 50	516.1	76	24	—
NO 100	649.5	95	5	0-25
PAN	681.4			
FINENESS MODULOUS		2.10		

200 WASH 5.7 GMS
0.84 %

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	10-1-79	0.84 %	Pass C 117
Colorimetric	10-2-79	< 1	Pass C 40

REMARKS: Fine Agg Sieve Analysis Performed in 2 Parts
FM Was Less than 0.20 From Design Mix of 2.07
Coarse Agg Conforms To C 404-70
Fine Agg Conforms To C 144-70
MTC 2.31-2.4 2.31.05

T-S-33

FILE CODE [illegible]
NAME [illegible]
DATE [illegible] -79

STONE & WEBSTER E[illegible]INEERING CORPORATION
SIEVE ANA[illegible]SIS REPORT

SAMPLED BY H. CALABRO DATE 6-19-79 P[illegible]JECT SNPS-1 JOB ORDER NO 11600..
PERFORMED BY R. THOMPSON DATE 6-20-79 S[illegible]CE (S) MASON MIX

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"				
3/8"				
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE MS-22

3/8"	0	0.0	100	100
NO. 4	0	0.0	100	100
NO. 8	8.6	1	99	95-100
NO. 16	30.6	5	95	—
NO. 30	212.7	35	65	—
NO. 50	491.7	82	18	—
NO. 100	584.1	97	3	0-25
PAN	652.5			
FINENESS MODULOUS		2.20	2.20	

-200 WASH 0.68 %
4.1 Gms. Spec. 0-10

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	6-20-79	0.68 %	PASS C 117
COLORIMETRIC	6-20-79	< 1	PASS C 40

REMARKS: SIEVE ANALYSIS PERFORMED IN 2 PARTS
FM WAS LESS 0.20 FROM DESIGN MIX OF 2.07
MATERIAL CONFORMS TO ASTM C 148-75
MTE 2-51-27

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY A Thompson DATE 4-3-79 PROJECT SNPS-1 JOB ORDER NO 11600.
PERFORMED BY J CRAFFEY DATE 4-5-79 SOURCE (S) MASON MIX

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
1 1/2"				
1"				
3/4"				
1/2"				
3/8"				
NO. 4				
NO. 8				
NO. 16				
PAN				

FINE AGGREGATE MS-21

3/8"	0	0	100	
NO. 4	0	0	100	100
NO. 8	5.9	1	99	95 TO 100
NO. 16	47.6	8	92	
NO. 30	200.8	34	66	
NO. 50	480.4	81	19	
NO. 100	573.7	97	3	25 MAX.
NO. 200	585.9	100	0	10 MAX.
PAN	588.9	W		
BEFORE -200 WASH	593.6			

FOLLOWING TESTS ALSO RUN

	DATE	RESULTS	REMARKS
-200 WASH	4-5-79	.823 %	PASS C-117
COLORIMETRIC	4-5-79	< 1	PASS C-40

REMARKS
SIEVE ANALYSIS DONE IN TWO PARTS

FINENESS MODULUS OF 2.21 WITH A VARIANCE OF LESS THAN 0.20 FROM DESIGN MODULUS OF 2.07

MATERIAL CONFORMS TO ASTM C144 STANDARD SPECIFICATION FOR MASONRY MORTAR WITH RESPECT TO SIEVE ANALYSIS, AMOUNT OF MATERIAL FINER THAN 200, FINENESS MODULUS, AND ORGANIC IMPURITIES.

MrTE 2-31-24

FILE CODE 141-190
NAME RMcCarrel
DATE 2/26/79

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY A. Thompson DATE 2-22-79 PROJECT SNPS-1 JOB ORDER NO 11600.50
PERFORMED BY A. Calanzo DATE 2-23-79 SOURCE (S) ~~Roanoke Harbors~~ Mason & X

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"				
3/8"			NA	
NO 4				
NO 8				
NO 16				
PAN				

MASONRY SAND FINE AGGREGATE ~~RH~~ MS-20

~~3/8~~ 4	0	0	100	100
~~NO 4~~ 8	0	0	100	95-100
~~NO 8~~ 16	49.3	7	93	~~80-100~~
~~NO 16~~ 30	201.4	30	70	~~50-85~~ [illegible]
~~NO 30~~ 50	512.4	78	22	~~25-60~~
~~NO 50~~ 100	628.4	95	5	~~10-30~~ 0-25
~~NO~~ 200	656.3	99	1	~~2-10~~ 0-10
PAN	659.3	—	—	—
FINENESS MODULOUS	—	2.10	—	—

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
[illegible]	[illegible]	[illegible]	Pass
[illegible]	[illegible]	[illegible]	Pass

REMARKS Test results conform to ASTM C33 C-144 ~~'75~~ C117 C40

Sieve Analysis done in two parts.

[illegible] 2-22-79

TIRMED OVER IN PART
[signature] 7/27/81

FILE CODE SH 390
NAME M. Calabro
DATE 1-12-79

SNPS-1
QC-10.1, Revision 4
Attachment 5.3

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

F-S-22
Sample Location
North Coordinate NA
East Coordinate NA
Elevation NA
Scale No. [illegible]

Date 1-9-79 J.O.No. 11600.
Project Long Island Lighting Company
Site Shoreham Nuclear Power Station
Inspector M. [illegible]

Material Description or Proctor Designation MS 19

Sieve WS Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
4		.5 gm	0	100	100
8		9.0 gm	1	99	95-100
16		51.1 gm	8	92	—
30		194.4 gm	30	70	—
50		510.5 gm	78	22	—
100		629.7 gm	97	3	0-25
200		646.4 gm	99	1	0-10

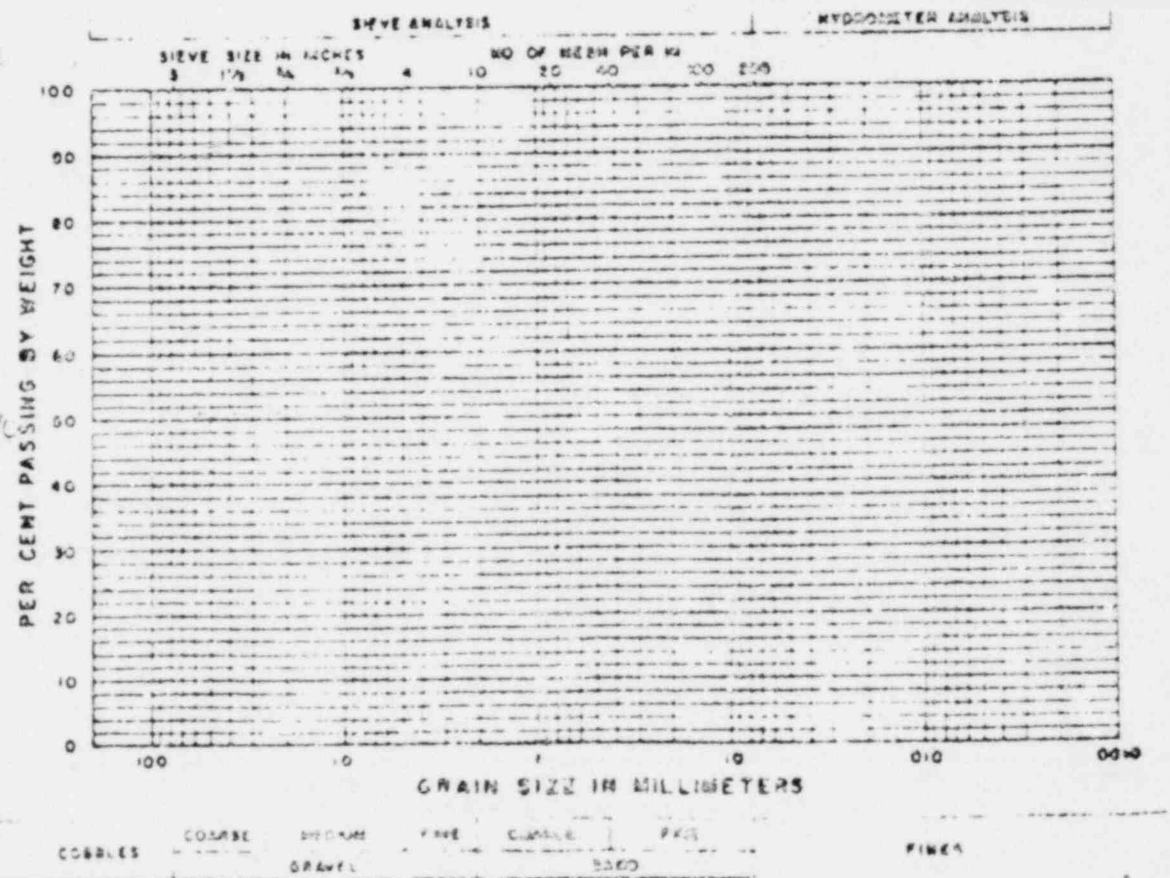
Colorimetric C-40 <1

F.M. 2.14

Wt. of Original Sample 650.7 gm

200 Wash
C-117
.7%

Material
conforms to
ASTM C-144
and C-117, C-40



Reviewed
1/25/79

1

#1600.50

A Pivia 11 30 78 SNPS-1
M Pivia 12 / 78 Roanoke Mairview

2"				
1 1/2"				
1"				
3/4"				
1/2"			N/A	
3/8"				
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE

				MS 18
			100	100
4	2	0	99	95 100
8 ~~NO 4~~	69	1	95	
16 ~~NO 8~~	343	5	79	
30 ~~NO 16~~	1548	21	25	
50 ~~NO 30~~	5488	75	4	0 25
100 ~~NO 50~~	7038	96	1	0 10
200 ~~NO 100~~	7259	97	-	
	7303	-		
FINENESS MODULUS	-	1987 HC	-	-

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
200 wash	12-1-78	.40	PASS
Colorimetric	12-1-78	<1	PASS

Test results conform to ASTM C 144 C117/2-4C

Sieve Annlysist Done in Two Parts

MT E #
2-31-25

TRACED OVER By Alena
7-27-81

SNPS-1
QC-10.1, Revision 4
Attachment 5.3

FILE CODE [illegible]
NAME R.A. Cowell
DATE 9/22/78

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

T-S-22
Sample Location
North Coordinate N/A
East Coordinate N/A
Elevation N/A
Scale No. 3-5025

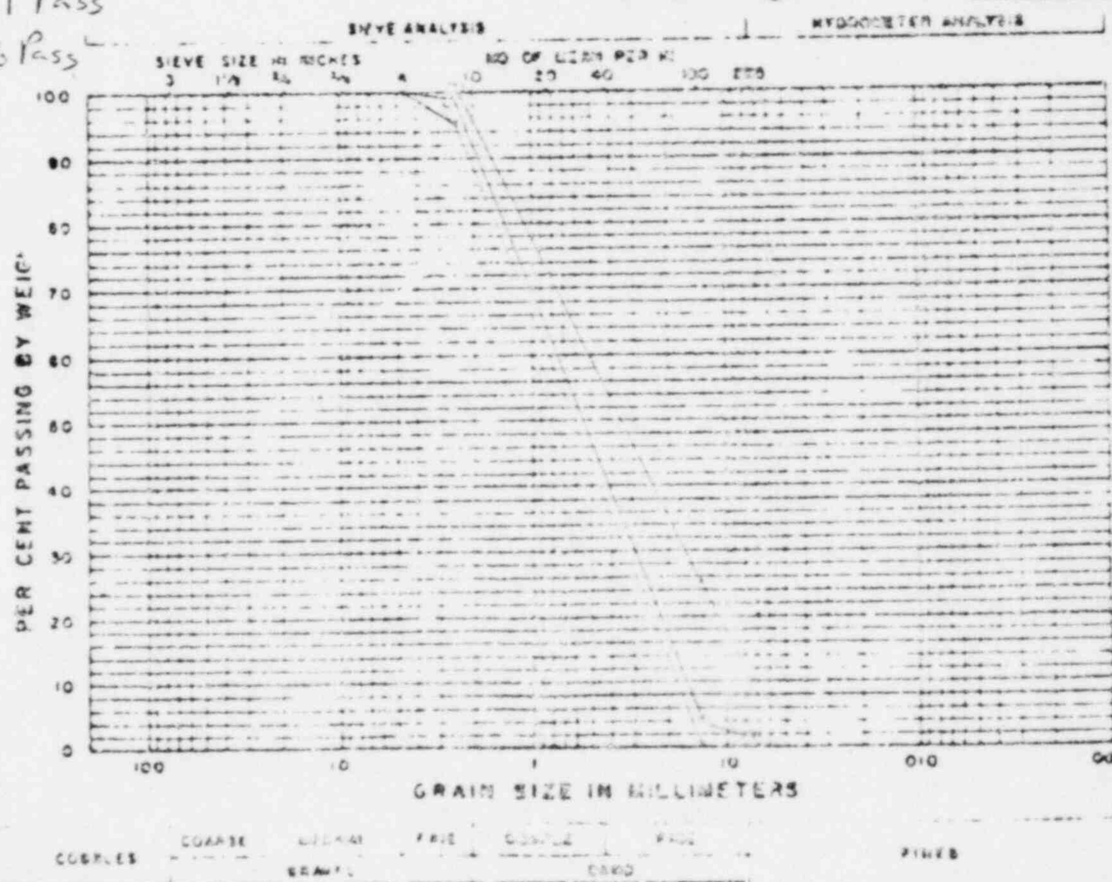
Date 9-12-78 J.O. No. 11600. [illegible]
Project [illegible]
Site [illegible]
Inspector [illegible]

Material Description or Proctor Designation MS 17 (Mortar Sand)

Sieve WS Standard	Opening mm	Weight Retained	% Retained	% Passed	Spec. Required % Passed
3/8		0	0	100	100%
4	4.76	.4	0	100	100%
8	2.38	3.8	1	99	95-100%
16	1.18	27.5	5	95	—
30	.600	138.5	25	75	—
50	.300	424.1	76	24	—
100	.150	542.2	97	3	0-25 %
200	.075	557.8	99	1	0-10%

FM 2.04
Wt. of Original Sample 561.3

Colormetric <1 Pass
200 Wash .3% Pass



Meets requirements of ASTM C144-75.
R.A. Cowell 9/22/78

T-S-33

FILE CODE [illegible]
NAME [illegible]
DATE 4-10-78

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY [illegible] DATE 3-15-78 PROJECT SNPS-1 JOB ORDER NO [illegible]
PERFORMED BY [illegible] DATE 3-22-78 SOURCE (S) [illegible]

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"		NA		
1/2"				
3/8"				
NO. 4				
NO. 8				
NO. 16				
PAN				

FINE AGGREGATE MS-15

3/8"	0	0		
NO. 4	0	0	100	100
NO. 8	4.2	1	99	95-100
NO. 16	30.1	5	95	
NO. 30	149.7	24	76	
NO. 50	466.4	75	25	
NO. 100	597.0	96	4	25 MAX
PAN	621.2			
FINENESS MODULOUS		2.01		1.6 - 2.50

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	3-21-78	.45	PASS C-117, C144
COLORMETRIC	3-21-78	<1	PASS C-40, C144

REMARKS MATERIAL CONFORMS TO ASTM C144 STANDARDS FOR AGGREGATES OF MASONARY MORTAR.

SIEVE ANALYSIS DONE IN TWO PARTS

FM DESIGN MIX ~~[illegible]~~ or 2.07 MS #7 MATE [illegible]
VARIANCE IS LESS THAN 0.20 2-31-24
2-31-06

TRACED OVER BY.
[illegible] 7/27/81

[illegible] 4/10/78

x

HANK CALABRO 6-24-76
H. CALABRO 6-25-76

MS - 9

SNPS 11600.50
Suffolk Mixing - Port Jefferson

F.A.

2"				
1 1/2"				
1"				
3/4"				
1/2"		N		
3/8"		A		
NO 4				
NO 8				
NO 16				
PAN				

3/8"	—	—	—	—
NO. 4	0	0	0	100
NO 8	2.1	0	100	95-100
NO 6	25.6	4	96	—
NO 30	140.9	23	77	—
NO 100	595.3	98	2	0-25
NO 200	605.5	99.6	0.4	0-10
PAN	607.7			
FINENESS MODULUS		1.98		

COLORIMETRIC	6-24	6-25	<1
200 WASH	6-24	6-25	.1 %

Material meets ASTM specs C144-70 C117-71 + C40-73
Material was tested for gradation in two parts.

TRACED OVER BY
[illegible] 7/27/81

T-[illegible]-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY [illegible] DATE 3-12-76 PROJECT S.N.P.S. JOB ORDER NO. 11600
PERFORMED BY [illegible] DATE 3-15-76 SOURCE (S) R.M.

M.S. [illegible] COARSE AGGREGATE SIZE DESIGNATION FA. - MORTAR S[illegible]

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"			N.	
3/8"			A.	
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
3/8"	—	—	—	
NO 4	0	0	—	—
NO 8	2.9	0	100	100
NO 16	—	0	100	95-100
NO 30	—	—	—	—
NO 100	57[illegible].5	98.6	1.4	—
NO 200	576.7	98.63	1.37	0-25
PAN	584.7			0-10
FINENESS MODULOUS		2.07*		

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
[illegible]METRIC	3-15	3-16	21
-200 WASH	3-15	3-16	0.25%

REMARKS [illegible] ASTM spec. C144-70, C117-71 + C40-73.
Material was tested for gradation in two parts.

* Fineness Modulus obtained by using #16, #30 + #50 sieves in addition to sieves used for gradation except the #200 sieve.

S. S. [illegible]

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

Acceptance

SAMPLED BY SOUTH SHORE BRICK [illegible] DATE 3-12-76 PROJECT S.N.P.S. JOB ORDER NO 11600.[illegible]
PERFORMED BY [illegible] DATE 3-15-76 SOURCE (S) R.M.

[illegible] COARSE AGGREGATE SIZE DESIGNATION F.A. - MORTAR SA.

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"		N.		
3/8"		A.		
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
3/8"	—	—	—	—
NO. 4	0	0	100	100
NO 8	[illegible]	0	100	95-100
NO. 16	—	—	—	—
NO 30	—	—	—	—
NO 180	589.9	98.6	1.4	0-25
NO 200	59[illegible].1	98.96	1.04	0-10
PAN	59[illegible].3			
FINENESS MODULOUS		2.07 *		

FOLLOWING TESTS ALSO RUN	TYPE OF TEST	DATE	RESULTS	REMARKS
	COLORIMETRIC	3-15	3-16	<1
	-200 WASH	3-15	3-16	0.40%

REMARKS Material meets ASTM specs C144-70, C117-71 + 40-73.
*Material was [illegible] for gradation in two parts.

*Fineness Modulus [illegible] by using #16, #30 + #50 sieves in addition to [illegible] used for gradation except for the #200 sieve.

S. S. Pannu

R. Fitzgerald 1-5-76 S.N.P.S.
BASADA 1-7-76 Suffolk Mining, Port Jefferson 11600-50
M.S. #5 F.A.

N
A

0	0	100	100
23.7	3	97	95-100
764.6	99	1	0-25
771.4	99.73	0.27	0-10
773.5			
	2.02		

-200 WASH	1-6-76	1-7-76	0.42%
COLORMETRIC	1-5-76	1-6-76	<1

Material meets ASTM specs C144-70, C117-71 & C40-73
Material was tested for gradation in 2 parts.

TRACED OVER BY,

[signature]
7/27/81

x

A. Thompson 2-9-76
BAJADA 2-10-76
M.S. #6

SNPS
Suffolk Mixing Port Jefferson 1160050
FA

N A

0	0	100	100
14.0	2	98	95-100
652.2	99	1	0-25
653.9	99.0	1.0	0-10
660.5			
	2.00		

COLORMETRIC	2-9	2-10	<1
-200 WASH	2-10	2-11	0.7 %

Material meets ASTM specs C144-70 C117-71 + C40-73.
Material was tested for gradation in 2 parts.

TRACED OVER BY,

Bena 7/27/81

L. BAJADA 12-15-75 SNPS ORDER 1160050
L. BAJADA 12-16-75 JOBSITE

MS #4 FA

3/4		N		
		A		

FINE AGGREGATE

3/8"		—	—	—
NO. 4	0	0	100	100
NO. 8	25.5	4	96	95-100
NO. 16	—	—	—	—
NO. 30	—	—	—	—
NO. 100	695.7	99	1	0-25
	700.4	99.70	0.30	0-10
	702.5			
		2.03		

-200 WASH	12-16	12-17	0.48%
COLORMETRIC	12-15	12-16	1

Material meets ASTM specs C144-70, C117-71 + C40-73. material was tested for gradation in 2 parts

TRACED OVER BY

Rum

7-27-81

STONE & WEBSTER ENGINEERING CORPORATION

B. Kennedy 11-24-75 S.N.P.S JOB ORDER NO. 1160050
L. BAJADA 11-25-75 JOB SITE

M.S. #3 F.A.

N A

FINE AGGREGATE

	—	—	—	—
	0	0	100	100
	5.6	1	99	95-100
	—	—	—	
	—	—	—	—
	727.0	99	1	0-25
	734.4	99.53	0.47	0-10
	737.9			
		1.995		

-200 WASH	11-25-75	11-26-75	0.84%
COLORIMETRIC	11-24-75	11-25-75	<1

Material meet ASTM specs C144-69, C40-73 + C117-71

material was tested for gradation in 2 parts.

TRACED over By

Bena 7/27/81

X

11600.50

H CALADRO 9-18-75 S.N.P.S.
L BAJADA 9-19-75 Suffolk Mining, Port Jefferson

MORTAR SAND

MS #2

N
A

				100
	0	0		95-100
	5.5	1		
				0-25
100	778.6	99		0-10
200	786.6	99.56		
	790.0			
		1.995		
	Colormetric	9-18-75	9-19-75	<1
	-200 WASH	9-18-75	9-20-75	0.63%

Material meets specs C144-70 C117-71, C40-73
material was tested for gradation in 2 parts.

TRACED OVER BY,
[signature]
9-27-81

SAMPLE #MA2 SENT OUT
TO PRIVATE LAB ON 6-20-78

X

JJ CRAFFEY 6-21-78
S P. DePillo 6-23-78

SNPS-1
MASON MIX INC

11600-50

NA

0.0	g	0	100	—
0.5	g	0	100	100
26.3	g	2	98	95-100
86.0	g	10	[illegible]	—
329.8	g	35	67	—
778.2	g	39	21	—
950.7		96	4	0-25
#200 / PAN 973.9/887	g	99	1	0-10
995.4	g	220	—	—

COLORMETRIC 6-23-78 <1 PASS
-200 WASH 6-23-78 0.3% PASS

MATERIAL CONFORMS TO ASTM C-33, C-112, C-40
SIEVE ANALYSIS WAS DONE IN TWO PARTS

TRACED OVER BY
[signature] 7/22/81

x

B KENNEDY	7-29-75	SNPS	11600.50
L. BAJADA	7-30-75	MORTAR SAND - SUFFOLK MINING POINT JEFFERSON	

FINE AGGREGATE

	—	—	—	—
				100
NO. 4	1.00	0	100	
NO. 8	17.9	2	98	95-100
	—	—	—	—
	—	—	—	
	778.2	99	1	0 - 2.5
	784.3	99.63	0.37	0 - 10
	787.2			
FINENESS MODULUS		2.006		

FOLLOWING TESTS ALSO	COLORMETRIC	7-29-75	7-30-75	meets spec.
	-200 WASH	7-29-75	7-30-75	1 % MEETS SPEC.

MAT'L MEETS ASTM C144-70, C117-71 & C40-73.
AGGREGATE FOR MASONRY MORTAR.
MAT'L WAS TESTED FOR GRADATION IN 2 PARTS

TRACED OVER BY
[illegible]
7-27-81

T-S-33

FILE CODE 5[illegible]
NAME P.A. [illegible]
DATE 6/6/77

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY S. Marinello DATE 6-2-77 PROJECT SNPS JOB ORDER NO 11600.[illegible]
PERFORMED BY S. Marinello DATE 6-3-77 SOURCE (S) Roane, & Marlboro

COARSE AGGREGATE SIZE DESIGNATION

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"		N		
1/2"		A		
3/8"				
NO. 4				
NO. 8				
NO. 16				
PAN				

FINE AGGREGATE — Masonry Sand #1

3/8"	—	—	—	—
NO. 4	0	0	100	100
NO. 8	1.3	0	100	100
NO. 16	—	—	—	95-100
NO. 30	—	—	—	—
NO. ~~50~~ 100	536.6	98	2	0-25
NO. 200	548.1	100	0	0-10
PAN	550.3			
FINENESS MODULOUS		1.98		

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 wash	6-3-77	.25%	mtc 2-31-24
Colorimetric	6-3-77	<1	

REMARKS: Material meets ASTM spec C144, C40, & C117-71 material was tested in two parts.

T-S-33

FILE CODE [illegible]
NAME F.A.Cruel
DATE 11/28/77

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY A. THOMPSON DATE 10-12-77 PROJECT SVPS-1 JOB ORDER NO 11600.50
PERFORMED BY A. THOMPSON DATE 10-13-77 SOURCE (S) MASON MIX

COARSE AGGREGATE SIZE DESIGNATION AIS #13

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"				
3/8"		N	A	
NO 4				
NO 8				
NO 16				
PAN				

FINE AGGREGATE

4 ~~3/8~~	0.0	0	100	100
8 ~~NO. 4~~	10.0	2	98	95-100
16 ~~NO 8~~	48.0	8	92	
30 ~~NO 16~~	177.3	28	72	
50 ~~NO 30~~	507.7	81	19	
100 ~~NO 50~~	606.9	97	3	0-2.5
200 ~~NO 100~~	622.8	99.33	0.67	0-10
PAN	627.0			
FINENESS MODULOUS				

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	10-13-77	0.57 PASS	[illegible] 2-31-2 [illegible]
COLORIMETRIC	10-13-77	≤ #3 - PASS	

REMARKS: MATERIAL MEETS ASTM SPECS C144 & C117.
GRADATION WAS PERFORMED IN TWO PARTS

F.A.Cruel 11/28/77

T-S-33

FILE CODE SH-310

NAME R4 Crowel

DATE 9/20/77

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY A Thompson DATE 9-13-77 PROJECT SNPS -1 JOB ORDER NO ___
PERFORMED BY A. Thompson DATE 9-14-77 SOURCE (S) Mason Mix

COARSE AGGREGATE SIZE DESIGNATION MS-12

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"				
1 1/2"				
1"				
3/4"				
1/2"				
3/8"				
NO. 4				
NO. 6				
NO. 16				
PAN				

FINE AGGREGATE

3/8"	0.0	0.0		
NO. 4	0.0	0.0	100	100
NO. 6	4.7	0.9	99	95-100
NO. 16	21.4	4.0		N/A
NO. 30	165.5	30.8		N/A
NO. 50	358.0	66.5		N/A
NO. 100	519.7	96.6	3	0-25
# ~~PAN~~ 200	534.0	99.26	0.74	0-10
FINENESS Pan	538.0			
MODULOUS		1.99		

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 Wash	9-14-77	0.74	Pass - ASTM C-117
Colorimetric	9-13-77	< 1	Pass - ASTM C-40

REMARKS

FILE CODE SH1-390
NAME R A Carroll
DATE 8/11/77

SNPS-1
QC-10.1, Revision
Attachment 5.3

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

T-S-22

Sample Location
North Coordinate
East Coordinate
Elevation
Scale No. MTE 2-31-24

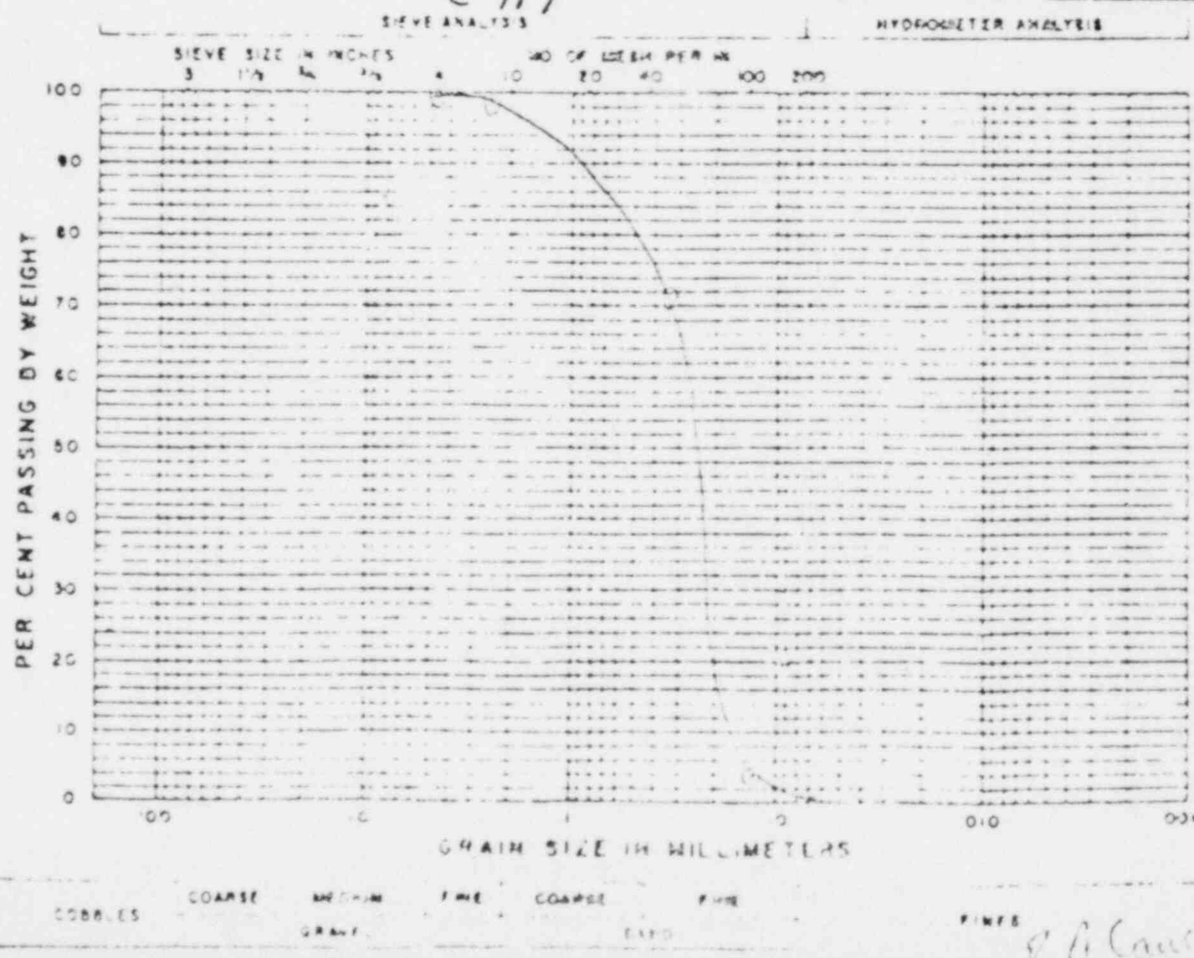
Date 8-9-77 J.O.No. 11600.50
Project Long Island Lighting Company
Site Shoreham Power Station-Unit #1
Inspector J. ARMIALTO

Material Description or Proctor Designation MS #10

Sieve WS Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
4	NA	0	0	100	100
8		4.8	1	99	95-100
50		366.3	71	29	
100		494.8	96	4	0-25
200		511.1	100	0.54	0-10
PAN		512.9	FM-1.97		
			-200 WASH — .54%		

- MATERIAL MEETS ASTM SPECS C-144
C-117

Wt. of Original Sample 512.9



R A Carroll 8/11/77

File Calc 941-390
R.A. Cowel
7/11/77

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

T-S-22

Sample Location
North Coordinate ~~N~~
East Coordinate ~~A~~
Elevation ______
Scale No. MTE 2-31-24

Date 6-29-77 J.O.No. 11600.
Project Long Island Lighting Company
Site Shoreham Power Station-Unit #1
Inspector J. Mentillo

Material Description or Proctor Designation MORTAR SAND MS#9

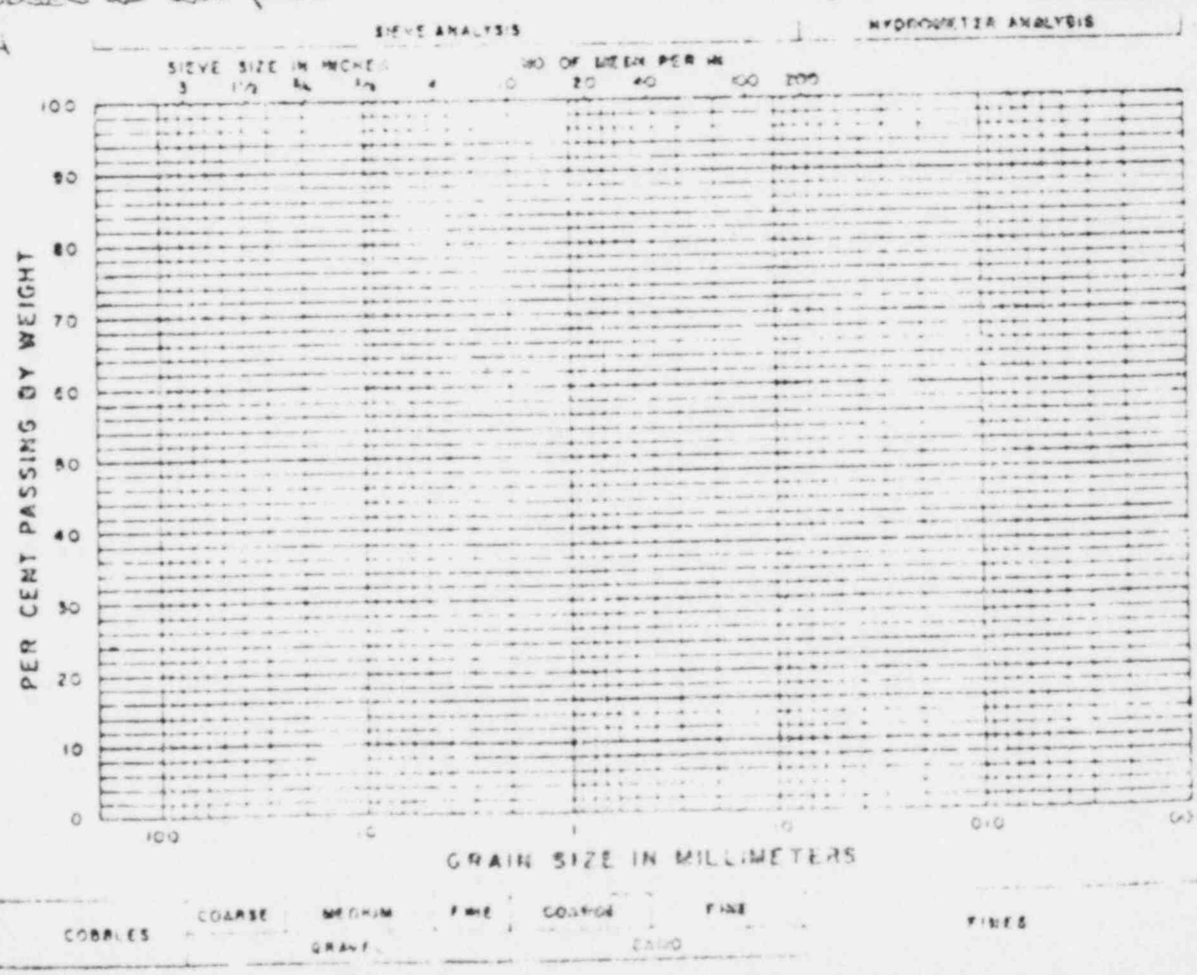
Sieve WS Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
#4		0	0	100	100
8	N	5.0	1	99	95-100
100	A	595.5	97	3	0-25
200		612.8	99	1	0-10
PAN		616.5			
FINENESS MODULUS			1.97		

– Material meets ASTM spec C144-71 material was tested in two parts.

Wt. of Original Sample 616.5

-200 WASH
.55%

COLORMETRIC
< 1



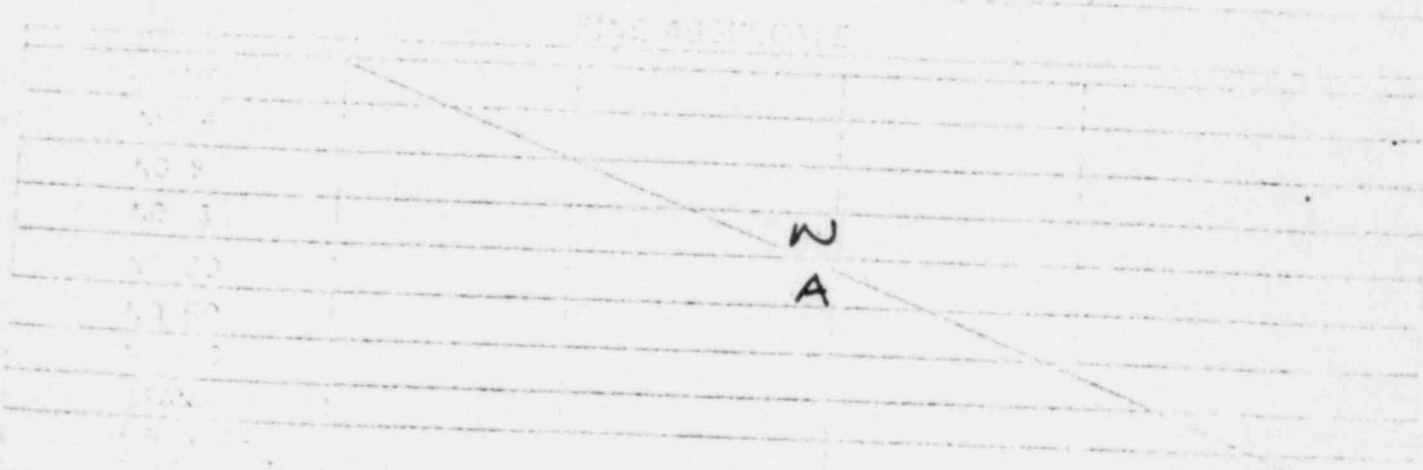
18

H. CALABRO 7/16/76 SNPS
L. BAJADA 7/19/76

CA89-4

#89

0	0	100	100
0.02	0	100	90-100
3.29	52	48	20-55
5.83	92	8	5-30
6.02	95	5	2-10
6.21	97	3	0-5
6.31			



-200 Wash 7-16 7-19 0.58%

Material meets ASTM specs C40[illegible]-74 & C117-71
Material was tested in two parts: One part tested in course aggregate sieve shaker
and the other part in the fine aggregate sieve shaker.

FILE CODE [illegible]
NAME [illegible]
DATE 12-15-78

Masonry

SNPS-1
QC-10.1, Revision 4
Attachment 9.3

18

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

[illegible]
Sample Location
North Coordinate N/A
East Coordinate N/A
Elevation N/A
Scale No. [illegible]

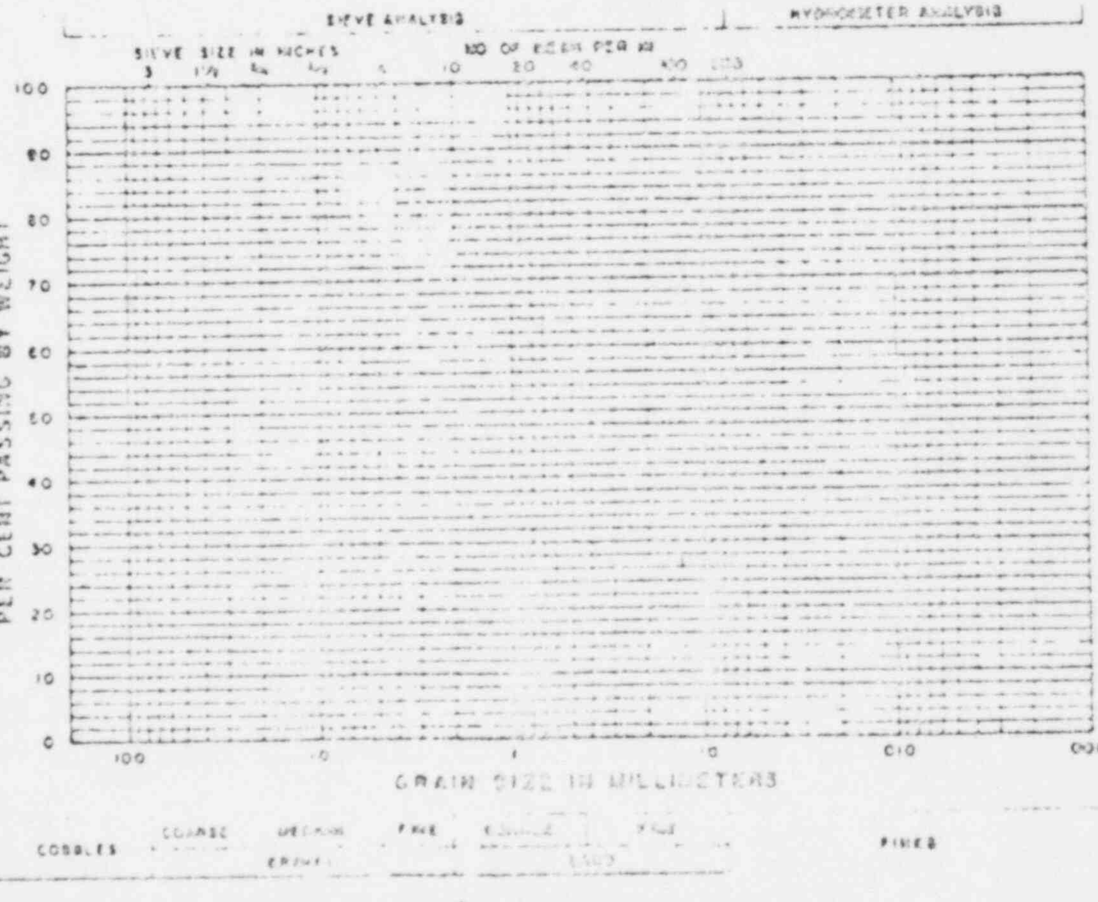
Date 12-5-78 J.O.No. 11600.58
Project Long Island Lighting Company
Site [illegible]
Inspector

Material Description or Proctor Designation CA 89-5

Sieve WS Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
1/2		0	0	100	100
3/8		72.8 gm	3	97	90-100
4		1337.0 gm	53	47	20-55
8		2392.1 gm	94	6	5-30
16		2420.7 gm	95	5	0-10
30		2459.8 gm	97	3	0-5
PAN		2535.4			

Wt. of Original Sample 2535.4

Test results conform to ASTM C 404-70



RAlanol
1-2-79

T-S-33

FILE [illegible]	
NAME [illegible]	
DATE [illegible]	

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY [illegible] DATE [illegible] PROJECT [illegible]
PERFORMED BY [illegible] DATE [illegible] SOURCE [illegible] JOB ORDER NO. [illegible]

COARSE AGGREGATE SIZE DESIGNATION [illegible]

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"	—		—	—
1-1/2"	—	—	—	—
1"	—	—	—	—
3/4"	—	—	—	—
1/2"	0	0	100	—
3/8"	[illegible]	8	92	100
NO. 4	[illegible]	72	28	[illegible]-100
NO. 8	[illegible]	91	9	[illegible]
NO. 16	2716	95	5	[illegible]
[illegible] 30	[illegible]	96	4	[illegible]
PAN	2585			[illegible]

FINE AGGREGATE

3/8"				
NO. 4				
NO. 8				
NO. 16				
NO. 30				
NO. 50				
NO. 100				
[illegible]				
FINENESS MODULOUS				

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS

REMARKS: Material meets ASTM spec C33-[illegible]

FILE CODE 5/11-390
NAME PAlanvel
DATE 1-5-79

SNPS-1
QC-10.1, Revision A
Attachment 5.3

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

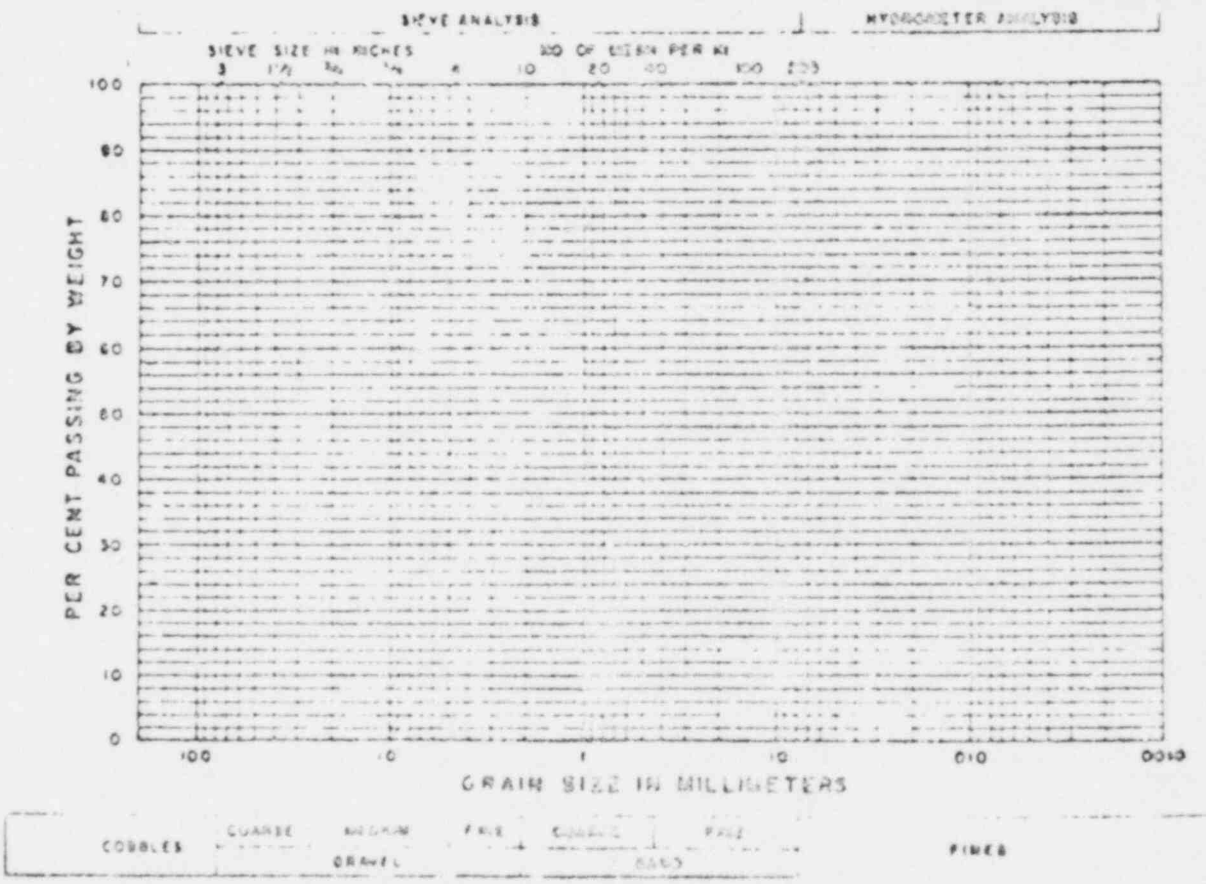
T-S-22
Sample Location
North Coordinate ______
East Coordinate ______
Elevation ______
Scale No. [illegible]

Date 12-15-78 J.O. No. 11600.
Project Long Island Lighting Company
Site Shoreham Power Station-Unit #1
Inspector [illegible]

Material Description or Proctor Designation CA-89-6 (MASONRY)

Sieve WS Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
1/2		0.00 lbs	0	100	100
3/8		.32 lbs	5	95	90-100
4		3.78 lbs	53	47	20-55
8		6.65 lbs	94	6	5-30
16		6.86 lbs	97	3	0-10
30		7.00 lbs	99	1	0-5
Pan		7.09 lbs	-	-	

Wt. of Original Sample 7.09 lbs



PAlanvel
1-5-79

T-S-33

FILE CODE	SH 1-???
NAME	H. C. C. ???
DATE	10-19-79

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

SAMPLED BY [illegible] DATE 9-28-79 PROJECT SNPS-1 JOB ORDER NO
PERFORMED BY [illegible] DATE 10-2-79 SOURCE (S) SEE BELOW

Source Reanik, Marburg COARSE AGGREGATE SIZE DESIGNATION CA 89-7

SIEVES		WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
	2"				
	1 1/2"				
	1"				
1/2	3/4"	0	0	0	100
3/8	1/2"	191	8	92	90 - 100
4	3/8"	1874	79	21	20 - 55
8	NO. 4	2202	93	7	5 - 30
16	NO. 8	2299	97	3	0 - 10
30	~~NO. 16~~	2310	97	3	0 - 5
	PAN	2376			

Source - Mason Mix FINE AGGREGATE MS - 23

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
3/8"	0.0	0	100	100
NO. 4	0.0	0	100	100
NO. 8	9.1	1	99	95-100
NO. 16	33.5	5	95	—
NO. 30	224.7	33	67	—
NO. 50	516.1	76	24	—
NO. 100	649.5	95	5	0 - 25
PAN	681.4			
FINENESS MODULOUS		2.10		

200 WASH 5.76 GMS
0.84 %

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	10-1-79	0.84 %	Pass C117
COLORIMETRIC	10-5-79	S.1	Pass C40

REMARKS: Fine Agg Sieve Analysis Performed In 2 Parts
FM Was Less Than 0.20 From Design Mix Of 2.07
Coarse Agg Conforms To C 409-70
Fine Agg Conforms To C 144-70
MTC 2.31-24 2.31.05

1

FILE CODE SWL-390
NAME E. Calabro
DATE 10/3/80

SNPS-1
QC-10.1, Revision 4
Attachment 5.3

STONE & WEBSTER ENGINEERING CORPORATION
FIELD DENSITY TESTS
GRANULAR SOILS QUALITY CONTROL
SIEVE ANALYSIS

T-S-22
Sample Location
North Coordinate N/A
East Coordinate N/A
Elevation
Scale No.

Date 9/3/80 J.O.No. 11600.50
Project Long Island Lighting Company
Site [illegible] Power Station-Unit 1
Inspector [illegible]

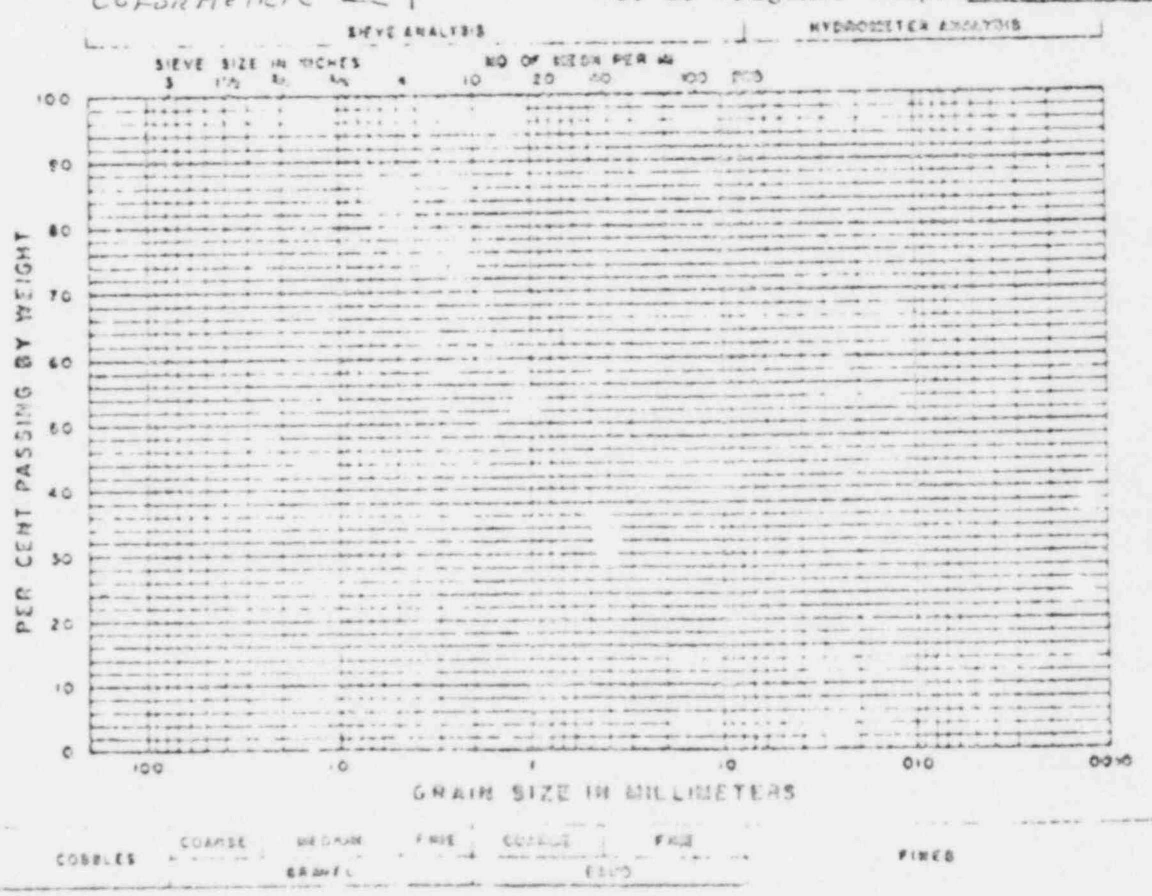
Material Description or Proctor Designation CA-8-1 Roanoke-Marburo FOR MASONRY WORK

Sieve US Standard	Opening mm	Weight Retained	o/o Retained	o/o Passed	Spec. Required o/o Passed
	1/2	0	0	100	100
	3/8	1.11	11	89	85-100
	4	8.18	84	16	10-30
	8	9.53	98	2	0-10
	16	9.66	99	1	0-5
	Pan	9.71			
			F.M. 2.92		

-200 WASH 0.56%
COLORMETRIC < 1

Wt. of Original Sample 9.75

M+TC
2-31-19
2-31-06



E. Calabro 9/3/80

T-S-33

STONE & WEBSTER ENGINEERING CORPORATION
SIEVE ANALYSIS REPORT

Accep[illegible] tes

SAMPLED BY [illegible] DATE 3-12-76 PROJECT S.N.P.S. JOB ORDER NO. 11600.
PERFORMED BY [illegible] DATE 3-15-76 SOURCE (S) R.M.

CAS #2 COARSE AGGREGATE SIZE DESIGNATION #8 Size.

SIEVES	WT. RET	CUMULATIVE % RET	% PASSING	SPECS % PASSING
2"	——	——	——	——
1 1/2"	——	——	——	——
1"	——	——	——	——
3/4"	——	——	——	——
1/2"	0		——	——
3/8"	0.12	0	100	100
NO 4	4.55	2	98	85-100
NO 8	5.38	83	17	10-30
NO 16	5.44	98	2	0-10
PAN	5.50	99	1	0-5

FINE AGGREGATE

3/8"				
NO. 4				
NO. 8				
NO 16				
NO 30		N.		
NO. 50		A.		
NO 100				
PAN				
FINENESS MODULUS				

FOLLOWING TESTS ALSO RUN

TYPE OF TEST	DATE	RESULTS	REMARKS
-200 WASH	3-15	3-15	0.36%

REMARKS Material meets ASTM spec. C404-70 & C117-71.

S.S. [illegible]

ROBERT W. HUNT COMPANY

810 SOUTH CLINTON STREET · CHICAGO, ILLINOIS 60607

File 5059-8
Order 1-C-12841-29

February 2, 1977

Report [illegible]
Page 1

19

Long Island Lighting Company
c/o Stone & Webster Engineering Corporation
Post Office Box 604
Wading River, N. Y. 11792

Reference: J. O. #11600.50
SNPS-QC-779

Material Tested: Water used in the production of Concrete at Project Unit #1

Gentlemen:

We herein submit results of Mortar Compressive Strength results using the above referenced mix water which was received in our laboratory on December 22, 1976.

Tests were conducted in accordance with ASTM C109-64 and per Stone [illegible] letter of December 13, 1976.

RECEIVED
FEB 0 9 1977
FIELD QUALITY CONTROL
SHOREHAM PROJECT

The results were as follows:

COMPRESSIVE STRENGTH (2 IN. CUBES) ASTM C-109-64

	Control Mix	Test
7 day Strength, P.S.I.	3550	3650
	3600	3600
	3650	3650
Average	3600	3634

Percent of Control 100.94

28 day Strength, P.S.I.	5250	5300
	5275	5275
	5200	5250
Average	5242	5275

Percent of Control 100.63

Distribution:
1 cc: R. L. Cusick, Stone & Webster
1 cc: J. P. Allen, Stone & Webster
4 cc: T. J. Burke, Long Island Lighting
1 cc: R. L. Bernard, Stone & Webster
1 cc: New York Office
1 cc: Quality Assurance, Chicago
GEM:lp

Respectfully submitted,
ROBERT W. HUNT COMPANY

G. E. Matoush

G. E. Matoush, Manager
Concrete & Cement Laboratory

NOTED FEB 10 1977 R. A. [illegible]

SHOREH[AM] DOCUME[NT]
FEB 8 197[7]
CONTRO[L] ROOM

NEW YORK, N. Y. PROVIDENCE, R. I. BOSTON, MASS. NEW HAVEN, CONN. BUFFALO, N. Y. PLAIN...

THE HALLER TESTING LABORATORIES

INCORPORATED

306 Leland Avenue
Plainfield, N. J. 07061
P. O. Box 46

19

SH1390

Compressive Strength

TESTING INSPECTION CONSULTATION

Client: Long Island Lighting Company, Hicksville, New York

Project: Shoreham Nuclear Power Station - Unit #1

Subject: Laboratory Testing of Mortar Cubes and Cylinders Fabricated at the Project Site

Report No. 7724-73 Date Sept. 24, 1973

Form R-2

The following are the laboratory test results of Nine (9) cubes and six (6) cylinders of mortar fabricated at the project site by the client's representatives. The samples were delivered to this laboratory by Mr. S. Kalat of the Stone and Webster Engineering Corp. on August 25, 1973.

The samples were tested for compressive strength with the following results:

Continued on Sheet #2

RECEIVED
SEP 27 1973
FIELD QUALITY CONTROL
SHOREHAM PROJECT

Table - Compressive Strength of Mortar Samples

Sample Identification	Date Tested	Age Days	Compressive Strength P.S.I.
2A Cylinder	8-27	4	3376
5A Cylinder	"	4	2366
1A Cube	"	4	4450
4A Cube	"	4	3288
3A Cube	"	4	3720
		Average Cubes	3819
		Average Cyls.	2871
3B Cube	8-30	7	5250
1B Cube	"	7	5170
4B Cube	"	7	4880
2B Cylinder	"	7	3608
5B Cylinder	"	7	2459
		Average Cubes	5100
		Average Cyls.	3034
1C Cube	9-20	28	6858
3C Cube	"	28	6703
4C Cube	"	28	7698
2C Cylinder	"	28	6337
5C Cylinder	"	28	5229
		Average Cubes	7086
		Average Cyls.	5783

THE HALLER TESTING LABORATORIES, INC.

Kamil Sor

Kamil Sor, Ph.D.
Laboratory Director

KS:rw
Reported to:
Stone & Webster Engineering Corp.
c/o Senior Field Quality Control Engineer -2-
P.O. Box [illegible]
Wading River, New York 11792

RECEIVED
SEP 27 1973
FIELD QUALITY CONTROL
[illegible]

SOUTH SHORE BRICK MASONS / [illegible] DINGTON STREET • [illegible] NEW YORK [illegible]
INCORPORATED

October 10, 1977 21

Stone & Webster Engineering Corp.
P.O. Box 604
Wading River, New York

Att: Mr. Art Thompson

Gentlemen:

Re: Shoreham Nuclear Power Station Unit 1
Furnish & Erect Concrete Masonry
W.O. 48923 (CC-5-508)
J.O. No. 11600.03
LONG ISLAND LIGHTING COMPANY

As per your request, we are delivering this day the following physical samples:

3 samples - 8" x 8" x 18" solid load bearing block - ASTM C-145

3 samples - 8" x 8" x 18" hollow load bearing block- ASTM C-90

Very truly yours,

SOUTH SHORE BRICK MASONS, INC.

Walter J. Harris
Walter J. Harris

WJH:fr

RECEIVED:

Date 10-11-77

By A. Thompson
STONE & WEBSTER ENGINEERING CORP.

C.C. Bev Hill

5

SMITHTOWN CONCRETE PRODUCTS CORPORATION
Jericho Turnpike
and Arthur Drive
Smithtown, New York 11787
(516) 265-1815

September 23, 1976

South Shore Brick Masons, Inc.
80 Reddington Street
Bay Shore, New York, 11706

RE: LILCO Nuclear Power Station
Shoreham, New York

Gentlemen:

Please be advised, under separate cover we have delivered to the job site, the following representative samples which are typical of those we propose to manufacture and deliver to subject project. These samples are respectfully submitted for test as per specifications:

10 pcs 4 x 8 x 18 Hollow Lightweight, ASTM C-129
10 pcs 8 x 8 x 18 Hollow Lightweight, ASTM C-90
10 pcs 8 x 8 x 18 75% Solid Lightweight, ASTM C-145

We wish to assure you of excellent quality units and prompt delivery.

Very truly yours,

SMITHTOWN CONCRETE PRODUCTS CORP.

Neal L. Spevack

Neal L. Spevack

NLS:mt

Received by. A. B. Thompson
Date: 9/27, 1976

2

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	JOB ORDER: 11600.56

SAMPLING

MORTAR, SOUTH SHORE MASONRY	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMEN NOS: MC 627 A-F	LOCATION SAMPLED: REACTOR
DATE: 10-22-79	HOUR: 9:00 AM	N/A	AIR TEMP: 73 / MORTAR 73
READY MIXED CONCRETE: N/A	TIME AFTER INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A	TRUCK CAPACITY: N/A	N/A
3	REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A	SAMPLE TAKEN: ☑ AT POINT OF PLACEMENT	
METHOD OF PLACING: N/A	SLUMP: N/A	N/A PER CENT	CURING: WET BURLAP 1 DAY
N/A	SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1000 PSI AT 28 DAYS	SPECIFIED MIX: BY CONTRACTOR	

LOCATION OF SPECIMENS PLACEMENT: 2' SHIELD WALL - EAST WALL OF DEMINERALIZER AREA ON EL 15'9" EXTEND 3' N. & 3' S. (57' & C)

MIX

MOIST AGGREGATE	FINE AGGREGATE: 4.5 CU FT	N/A GALS	— LBS	N/A GALS	N/A GALS / N/A GALS
SURFACE DRY AGGREGATE	— LBS	— LBS	— GALS		
QUANTITY OF CEMENT: 1 BAGS	YIELD: N/A	CEMENT PER CU YD: N/A BAGS	WATER/CEMENT RATIO: N/A	AIR ENTRAINING ADMIXTURE: NONE	SLUMP: N/A

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

MATERIALS

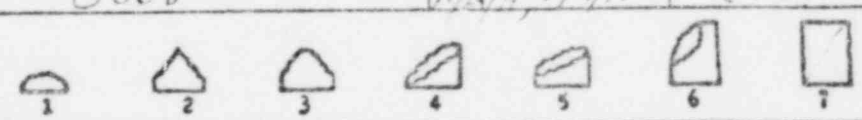
BRAND OF CEMENT: LONE STAR	TYPE OF CEMENT: II	MAXIMUM SIZE COARSE AGGREGATE: —	SOURCE OF FINE AGGREGATE: MASONMIX INC.
SOURCE OF LIME: G&W.H. CORSON	SPECIFIC GRAVITY OF AGGREGATES: FINE N/A, COARSE —	BRAND OF AIR ENTRAINING ADMIXTURE: NONE	

REMARKS: BATCHED ½ CU. FT. LIME — NONE

TESTING LABORATORY: S&W F.Q.C. SITE LAB	LOCATION: SHOREHAM N.Y.	DATE RECEIVED: 10-23-79
CONDITION OF SPECIMENS: GOOD	DATE OF TESTS: 10/29/79, 11/19/79	DAYS OF CURING IN LABORATORY: 6 & 28 DAYS

TESTS

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 627 A / B	2X2	10/29/79	8250 / 7300 LBS	N/A	7 DAYS	3 / 3	N/A
C / D	↓	10/29/79 / 11/19/79	7650 / 12550 LBS		7 / 28 DAYS	3 / 3	
E		11/19/79	13650 LBS		28 DAYS	2	
F	↓	11/19/79	15250 LBS	↓	28 DAYS	3	↓

AVERAGE: 1921 LBS PER SQ INCH AT 7 DAYS — 3450 LBS PER SQ INCH AT 28 DAYS

REMARKS: M&TC - 2-22-02

SIGNED: [illegible] 10/30/79, 11/19/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	JOB ORDER: 11600.56
CONCRETE MIXED BY: MORTAR / South Shore Masons	SPECIMENS TAKEN BY: H. CALABRO	SPECIMENS: MC 626 A-F
LOCATION SAMPLED: REACTOR Building	DATE SAMPLED: 10-19-79	HOUR: 10:30
WEATHER: N/A	TEMP: 73	TEMP. MORTAR: [illegible]
READY MIXED CONCRETE: N/A	TIME OF INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A	TRUCK CAPACITY: N/A
TRUCK NO.: N/A	TIME OF CURING: 3	REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A
SAMPLE TAKEN: ☑ AT POINT OF PLACEMENT	METHOD OF PLACING: N/A	SLUMP: N/A
TOTAL AIR: N/A PER CENT	CURING: WET BURLAP, METHOD	1 DAY
METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A	SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1850 PER SQ IN AT 28 DAYS	SPECIFIED MIX: BY CONTRACTOR

LOCATION OF SPECIMEN PLACEMENT: BLOCK WALLS FOR THE EAST M.G. ROOM ON 150'9" SLAB. SAMPLED AT APPROX EL 15' ON EAST WALL

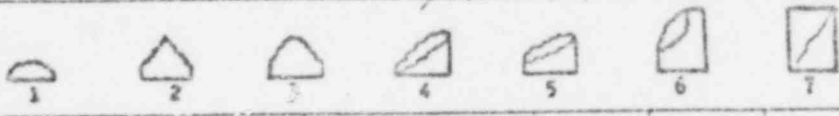
(A) MOIST AGGREGATE: N.S. [illegible]	WATER CONTAINED: N/A	COARSE AGGREGATE: —	WATER CONTAINED: N/A	WATER ADDED: N/A	TOTAL WATER CONTAINED: N/A
(B) SURFACE DRY AGGREGATE: FINE AGGREGATE: —	COARSE AGGREGATE: —	WATER USED: —			
QUANTITY OF CONCRETE: 3 [illegible]	N/A CU YDS	CEMENT PER CU YD: N/A	WATER-CEMENT RATIO: N/A	AIR ENTRAINING ADMIXTURE PER CU YD: NONE	SLUMP: N/A

REMARKS: MORTAR BATCHED BY VOLUME — WATER REDUCING AGENT: NONE — NONE

BRAND OF CEMENT: LONE STAR	TYPE OF CEMENT: I	MAXIMUM SIZE COARSE AGGREGATE: —	SOURCE OF FINE AGGREGATE: MASON MIX INC.
SOURCE OF COARSE AGGREGATE: Lime GENN. CORSON	SPECIFIC GRAVITY OF AGGREGATE: N/A	—	BRAND OF AIR ENTRAINING ADMIXTURE: NONE
REMARKS: BATCHED ½ CU. FT. LIME		BRAND OF WATER REDUCING AGENT: NONE	

TESTING LABORATORY: ERC. SITE LAB	LOCATION: SHOREHAM, N.Y.	DATE RECEIVED: 10-20-79
CONDITION OF SPECIMEN: GOOD	DATE OF TEST: 10/26/79 - 11/16/79	DAYS OF CURING IN LABORATORY: 6 & 28 DAYS

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC626 A / B	2 X 2	10/26/79	6400 / 5950 LBS	N/A LBS	7 DAYS	3 / 3	N/A
C / D	↓	11/16/79 / 11/16/79	6300 / 10,800 LBS	↓ LBS	28 DAYS	3 / 3	↓
E	↓	11/16/79	11,500 LBS	LBS	28 DAYS	2	
F	↓	11/16/79	11,150 LBS	LBS	28 DAYS	3	↓

AVERAGE: 1571 LBS PER SQ INCH AT 7 DAYS — AVERAGE: 2963 LBS PER SQ INCH AT 28 DAYS

REMARKS: N+TC- 2-22-02

[illegible signature]

[illegible] 11/[illegible]/79

REPORT OF COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | JOB ORDER: 11600.50

MORTAR | SOUTH SHORE MASONRY | SPECIMENS TAKEN BY: A. THOMPSON | SPECIMEN NOS.: MC624 A-F | LOCATION SAMPLED: REACTOR

DATE SAMPLED: 10-10-79 | HOUR: 11 15 | N/A | AIR TEMP: 65

N/A | N/A | TRUCK CAPACITY: N/A | TRUCK NO.: N/A

N/A

SAMPLE TAKEN: AT POINT OF PLACEMENT

METHOD OF PLACING: N/A | SLUMP: N/A | TOTAL AIR: N/A PER CENT | CURING AT JOB: WET BURLAP 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A | SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1800 PSI AT 28 DAYS | SPECIFIED MIX: BY CONTRACTOR

LOCATION OF SPECIMEN PLACEMENT: WALL 3' W/O ℄ FROM APPROX 58' TO 65' S/ ℄ SAMPLED AT 10' S/ ℄ EL 15½'

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE

(A) MOIST AGGREGATE: FINE AGGREGATE 4.5 CU FT | WATER CONTAINED N/A GALS | COARSE AGGREGATE — | WATER CONTAINED N/A GALS | WATER ADDED N/A GALS | TOTAL WATER N/A GALS

(B) SURFACE DRY AGGREGATE: FINE AGGREGATE — | COARSE AGGREGATE — | WATER USED —

QUANTITY OF CEMENT: 1 BAGS | N/A | CEMENT PER CU YD: N/A | WATER CEMENT RATIO: N/A | AIR ENTRAINING ADMIXTURE: NONE | SLUMP: N/A

REMARKS: MORTAR BATCHED BY VOLUME | WATER REDUCING AGENT: NONE | NONE

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | — | SOURCE OF FINE AGGREGATE: MASONMIX INC.

SOURCE OF LIME: WM. CARSON | N/A | — | BRAND OF AIR ENTRAINING ADMIXTURE: NONE

REMARKS: BATCHED ½ CU. FT. LIME | BRAND OF WATER REDUCING AGENT: NONE

TESTING LABORATORY: F.T.C. SITE LAB | LOCATION: SHOREHAM, N.Y. | DATE RECEIVED: 10-11-79

CONDITION OF SPECIMEN: GOOD | DATE OF TEST: 10-17-79, 11/7/79 | 6 & 27 DAYS

TYPE OF BREAK

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC-624 A	3X6	10-17-79	10,000 / 9,650 LBS	N/A LBS	7 DAYS	3 / 3	N/A
B / C		10-17-79 / 11/7/79	10,450 / 12,200 LBS	LBS	7 / 28 DAYS	3 / 3	
E		11/7/79	12,080 LBS	LBS	28 DAYS	2	
F		11/7/79	13,?00 LBS	LBS	28 DAYS	3	

AVERAGE: 2525 LBS PER SQ INCH AT 7 DAYS | AVERAGE: 4417 LBS PER SQ INCH AT 28 DAYS

REMARKS: HNTE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

Project: SNPS-1	Location: SHOREHAM N.Y.	Job: 11600.50
Mortar made by: South Shore Masonry	Specimens taken by: A. THOMPSON	Specimens: MC 623 A-F
Location sampled: REACTOR	Date sampled: 10-9-79	Hour: 1 PM
Weather: N/A	Air temp: 69	Mortar temp: 71
Ready mixed concrete: N/A	Water content: N/A	Truck capacity: N/A
Sample taken: at point of placement	Method of placing: N/A	Slump: N/A
Air: N/A	Curing: Burlap 1 DAY	Method of packing: N/A
Specified design compressive strength: 1800 psi at 28 days	By CONTRACTOR	

Location of sampling placement: WALL ON SLAB 150'9" 22' W/O ℄ FROM 50' TO 58' S/O ℄ SAMPLED AT EL 159'

Moist aggregate: 85 lbs	Water contained: N/A	Water added: N/A	Total water: N/A
Time of mixing: 4 min	Sand: N/A	Cement per cu yd: N/A	Water-cement ratio: N/A
Air entraining agent: None	Slump: N/A	Water reducing agent: None	Flyash: None

Remarks: MORTAR BATCHED BY VOLUME

Brand of cement: LONE STAR	Type of cement: II	Maximum size coarse aggregate: —	Source of fine aggregate: Mason Mix Inc.
Source of lime: JOHN CORSON	Specific gravity: N/A	Air entraining agent: None	Water reducing agent: None

Remarks: BATCHED ½ cu. ft. LIME — None

Testing laboratory: S&W FBC Site Lab	Location: Shoreham, N.Y.	Date received: 10-11-79
Condition of specimens: Good	Date of tests: 10-16-79, 11/6/79	Days of curing in laboratory: 6 & 27

Type of break: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 623 A	2×2	10-16-79	[illegible] lbs	[illegible] lbs	7 days	3	N/A
B		10-16-79	[illegible] lbs		7 days	3	
D		11/6/79	16800 lbs		28 days	3	
E		11/6/79	17000 lbs		28 days	3	
F		11/6/79	16450 lbs		28 days	3	

Average: 3372 lbs per sq inch at 7 days; 4204 lbs per sq inch at 28 days

Remarks: N4 Test 2-22-02

FBC [illegible]
10-16-79 [illegible]

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. ORDER: 11600.50

CONCRETE MIXED BY: MORTAR SHORE... | SPECIMENS TAKEN BY: A. THOMPSON | SPECIMEN NO.: MC622 A-F | LOCATION SAMPLED: REACTOR

DATE SAMPLED: 10-8-79 | HOUR: 9^{00} AM | MIXER: N/A | AIR TEMP: 69 | CONCRETE TEMP: MORTAR 72

READY MIXED CONCRETE: N/A | TIME AFTER INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A MIN | TRUCK CAPACITY: N/A | TRUCK NO.: N/A

TIME OF MIXING: 3 MIN | REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A | SAMPLE TAKEN: AT POINT OF PLACEMENT

METHOD OF PLACING: N/A | SLUMP: N/A IN | TOTAL AIR: N/A PER CENT | CURING METHOD: WET BURLAP 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A | COMPRESSIVE STRENGTH: 1500 LBS PER SQ IN AT 28 DAYS | SPECIFIED MIX: BY CONTRACTOR

LOCATION OF SPECIMEN IN STRUCTURE: WALLS ON EL 161 FROM APPROX 50' TO 58' S/O ℄ CATCH... EAST & WEST OF ℄ SAMPLED AT EL 169'

FINE AGGREGATE: 4.5 CU FT | WATER CONTAINED: N/A GALS | COARSE AGGREGATE: — | WATER CONTAINED: N/A GALS | WATER ADDED: N/A GALS | TOTAL WATER CONTAINED: N/A GALS

FINE AGGREGATE: — | COARSE AGGREGATE: — | WATER USED: —

CEMENT: 1 BAGS | YIELD: N/A | CEMENT PER CU YD: N/A BAGS | WATER/CEMENT RATIO: N/A | AIR ENTRAINING ADMIXTURE: NONE | SLUMP: N/A

REMARKS: MORTAR BATCHED BY VOLUME | NONE | NONE

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | MAXIMUM SIZE COARSE AGGREGATE: — | SOURCE OF FINE AGGREGATE: MASON MIX INC.

SOURCE OF LIME: G.W.H. CORSON | SPECIFIC GRAVITY OF AGGREGATES: FINE N/A COARSE — | NONE

REMARKS: BATCHED ½ CU. FT. LIME | BRAND OF WATER REDUCING AGENT: NONE

TESTING LABORATORY: S&W F.Q.C. SITE LAB | LOCATION: SHOREHAM, N.Y. | DATE RECEIVED: 10-9-79

CONDITION OF SPECIMENS: GOOD | DATE OF TESTS: 10-15-79, 11/5/79 | DAYS OF CURING IN LABORATORY: 6 & 27 DAYS

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC622 A/B	2X2	10-15-79	10,550 LBS	N/A LBS	7 DAYS	3	N/A
C/D		11/5/79	15,750 LBS	LBS	28 DAYS	3	
E		11/5/79	16,150 LBS	LBS	28 DAYS	3	
F		11/5/79	16,800 LBS	LBS	28 DAYS	2	

AVERAGE: 2621 LBS PER SQ INCH AT 7 DAYS | AVERAGE: 4059 LBS PER SQ INCH AT 28 DAYS

REMARKS: MATC-2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

Project: SNPS-1 | Project Location: SHOREHAM N.Y. | Job Order: 11600.50

Mortar: South Shore | Taken by: A. THOMPSON | Specimens: MC 621 A-F | Location: REACTOR

Date: 10-5-79 | Hour: 10 | N/A | Air Temp: 72 | Mortar: 70

Ready Mixed Concrete: N/A | N/A | Truck Capacity: N/A | Truck No.: N/A

Batch: 3 | N/A | Sample Taken: ☐ At Mixer ☐ At Truck ☑ At Point of Placement

Method: N/A | ☐ Pump ☐ Tremie ☐ Chutes ☐ Spading | ☐ Belts ☐ Bucket | Slump: N/A | Air: N/A per cent | Wet Burlap | 1 DAY

Method of Packing Sample for Shipment: N/A | Specified Design Compressive: 1350 per sq in at 28 days | Specified Mix: By CONTRACTOR

Location of Structural Placement: WALLS ON EL 161 FROM APPROX 50' TO 58' ½ ℄ EXTENDING EAST & WEST OF ℄ COURSE 5

Complete information on either (a) or (b) as applicable: (a) Moist aggregate: 4.5 CU FT | Water contained: N/A gals | — | N/A gals | N/A gals | N/A gals
(b) Surface dry aggregate: — | — | —

Cement: 1 | N/A | N/A | N/A | Air entraining: NONE | Slump: N/A

Remarks: MORTAR BATCHED BY VOLUME | Water reducing agent: NONE | NONE

Brand of Cement: LONE STAR | Type: II | — | Source of Fine Aggregate: RESONVIR INC.

Source of Lime: GEWH. CORSON | Specific Gravity: N/A | — | Brand of Air Entraining Admixture: NONE

Remarks: BATCHED ½ CU. FT. LIME | Brand of Water Reducing Agent: NONE

Laboratory: S&W FQC Site Lab | Location: SHOREHAM N.Y. | Date Received: 10-6-79

Condition of Specimens: GOOD | Date of Tests: 10-12-79, 11/2/79 | Days of Curing in Laboratory: 6 + 27 days

Type of Break

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 621 A	2 x 2	10-12-79	5850 lbs	N/A lbs	7 days	3	N/A
B		10-12-79	8,700		7	3	
C							
D		11/2/79	12,750 lbs		28 days	3	
E		11/2/79	11,750 lbs		28 days	2	
F		11/2/79	12,300 lbs		28 days	3	

Strength: 1858 lbs per sq inch at 7 days | 2913 lbs per sq inch at 28 days

Remarks: M+TC 2-22-02

Tested by: [illegible] 11-12-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT	PROJECT LOCATION	JOB ORDER
SNPS-1	SHOREHAM N.Y.	11600.50

SAMPLES — INFORMATION OBTAINED AT SITE

- MORTAR — SOUTH SHORE MASONS
- SPECIMENS TAKEN BY: A. THOMPSON
- SPECIMEN NO.: MC 619 A-F
- LOCATION SAMPLED: REACTOR
- DATE SAMPLED: 10-4-79
- TIME: 10 45 AM
- RECEIPT: N/A
- AIR TEMP: 72
- TEMP OF MORTAR: 72
- READY MIXED CONCRETE: N/A ☐ TRUCK MIXED ☐ AGITATED ☐ NON-AGITATED ☐ SHRINK-MIXED
- TIME LAPSE: N/A
- PLANT CAPACITY: N/A
- TRUCK NO.: N/A
- MIN. OF MIXING: 3
- REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A
- SAMPLE TAKEN: ☐ AT MIXER ☐ AT TRUCK ☑ AT POINT OF PLACEMENT
- METHOD OF PLACING: N/A ☐ BUCKETS ☐ PUMP ☐ CHUTES ☐ TREMIE ☐ SPADING ☐ BELTS ☐ POCKET
- SLUMP: N/A
- TOTAL AIR: N/A
- CURING AT SITE: WET BURLAP — 1 DAY
- METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A
- DESIGN COMPRESSIVE STRENGTH: 1150 AT 28 DAYS
- SPECIFIED MIX: BY CONTRACTOR
- LOCATION OF REPRESENTATIVE PLACEMENT: BLOCK WALLS ON EL 161' FROM APPROX 50' TO 58' 5/8" RUNNING E & W ... & 5TH COURSE

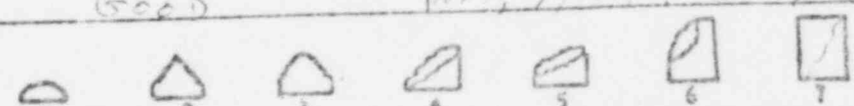
MIX

- COARSE AGGREGATE: 4.5 CU FT — WATER CONTAINED: N/A GALS
- WATER CONTAINED: N/A GALS — WATER ADDED: N/A GALS — TOTAL WATER: N/A GALS
- FINE AGGREGATE: — ; COARSE AGGREGATE: — ; WATER USED: —
- QUANTITY OF CEMENT: ... BAGS — FILLER: N/A — CEMENT FACTOR: N/A — WATER/CEMENT RATIO: N/A
- AIR ENTRAINING ADMIXTURE PER CU YD: NONE — SLUMP: N/A
- REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE
- BRAND OF CEMENT: LONE STAR — TYPE OF CEMENT: II — MAXIMUM SIZE COARSE AGGREGATE: — — SOURCE OF FINE AGGREGATE: MASON MIX INC.
- SOURCE OF LIME: PENN. CARSON — SPECIFIC GRAVITY OF AGGREGATE: FINE N/A COARSE — — BRAND OF AIR ENTRAINING ADMIXTURE: NONE
- REMARKS: BATCHED 1/2 CU. FT. LIME — BRAND OF WATER REDUCING AGENT: NONE

TESTING LABORATORY

- TESTING LABORATORY: S&W, PBC Site Lab
- LOCATION: Shoreham, N.Y.
- DATE RECEIVED: 10-5-79
- CONDITION OF SPECIMENS: Good
- DATE OF TESTS: 10-11-79, 11/1/79
- DAYS OF CURING IN LABORATORY: 6 + 27 DAYS

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
MC-619 A, B	2 X 2	10-11-79	10,500 / 9,300 LBS	N/A LBS	7 DAYS	3	N/A
C, D		10-11-79 / 11-1-79	10,600 / 11,550 LBS	LBS	28 DAYS	3	
E		11-1-79	12,050 LBS	LBS	28 DAYS	3	
F		11-1-79	14,200 LBS	LBS	28 DAYS	3	

AVERAGE: 2558 LBS PER SQ INCH AT 7 DAYS — AVERAGE: 3117 LBS PER SQ INCH AT 28 DAYS

REMARKS: M+TE-2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT	PROJECT LOCATION	JOB ORDER
SNPS-1	SHOREHAM N.Y.	11650.50

SAMPLING — INFORMATION OBTAINED AT SITE

SPECIMENS MOLDED BY	SPECIMENS TAKEN BY	SPECIMEN NO'S	LOCATION SAMPLED
MORTAR South Shore Masons	A. THOMPSON	MC 618 A-F	REACTOR

DATE SAMPLED	HOUR	DELIVERY	AIR TEMP	MORTAR TEMP
10-2-79	11 00	N/A	71 °F	70 °F

READY MIXED CONCRETE: N/A ☐ TRANSIT MIXED ☐ AGITATED ☐ NON-AGITATED ☐ SHRINK MIXED

TIME AFTER INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A MIN — TRUCK CAPACITY: N/A — TRUCK NO: N/A

TIME OF MIXING AT EQUIPMENT: 3 MIN — REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A

SAMPLE TAKEN: ☐ AT MIXER ☐ AT TRUCK ☑ AT POINT OF PLACEMENT

METHOD OF PLACING: N/A ☐ BUGGIES ☐ PUMP ☐ CHUTES ☐ TREMIE ☐ SPADING ☐ BELTS ☐ BUCKET — SLUMP: N/A IN — TOTAL AIR: N/A PER CENT — CURING AT SITE: WET BURLAP 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A — SPECIFIED DESIGN COMPRESSION STRENGTH: 1650 PER SQ IN AT 28 DAYS — SPECIFIED MIX: BY CONTRACTOR

LOCATION OF PLACEMENT: WALL ON SLAB 150'2" 50'3/8 ℄ FROM 19.5' TO 22'W/℄ ℄ 8TH COURSE

MIX QUANTITY PER BATCH

COMPLETE INFORMATION ON EITHER A OR B AS APPLICABLE	FINE AGGREGATE	WATER CONTAINED	COARSE AGGREGATE	WATER CONTAINED	WATER ADDED	TOTAL WATER CONTAINED
(A) MOIST AGGREGATE	4.5 CU FT	N/A GALS	— LBS	N/A GALS	N/A GALS	N/A GALS
(B) SURFACE DRY AGGREGATE	— LBS		— LBS		— GALS	

QUANTITY OF CEMENT	YIELD	CEMENT PER CU YD	WATER/CEMENT RATIO	AIR ENTRAINING ADMIXTURE PER CU YD	SLUMP
2 BAGS	N/A CU YDS	N/A BAGS	N/A	NONE	N/A IN

REMARKS: MORTAR BATCHED BY VOLUME — WATER REDUCING AGENT: NONE — AIR: NONE

MATERIALS

BRAND OF CEMENT	TYPE OF CEMENT	MAXIMUM SIZE COARSE AGGREGATE	SOURCE OF FINE AGGREGATE
LONE STAR	II	—	MASONMIX INC.

SOURCE OF LIME: EDWIN H. CORSON — SPECIFIC GRAVITY OF AGGREGATES: FINE N/A COARSE — — BRAND OF AIR ENTRAINING ADMIXTURE: NONE

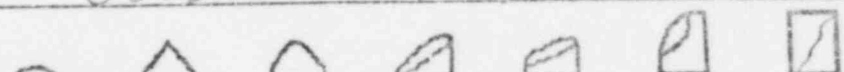
REMARKS: BATCHED 1/2 CU. FT. LIME — BRAND OF WATER REDUCING AGENT: NONE

TESTS — TO BE FILLED IN BY TESTING LABORATORY

TESTING LABORATORY: S&W-FQC Site Lab — LOCATION: Shoreham, N.Y. — DATE RECEIVED: 10-3-79

CONDITION OF SPECIMENS: GOOD — DATE OF TESTS: 10-9-79, 10-30-79 — DAYS OF CURING IN LABORATORY: 6 + 27 DAYS

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-618 A, B	2 x 2	10-9-79	6,200 / 6,550 LBS	N/A LBS	7 DAYS	3	N/A
C		10-9-79	6,750		7	3	
D		10/30/79	10,500 LBS	LBS	28 DAYS	3	
E		10/30/79	9,625 LBS	LBS	28 DAYS	2	
F		10/30/79	9,700 LBS	LBS	28 DAYS	3	

AVERAGE: 1650 LBS PER SQ INCH AT 7 DAYS — AVERAGE: 2488 LBS PER SQ INCH AT 28 DAYS

REMARKS: M+TE # - 2-22-02

SIGNED: [illegible] 10-8-79, 10/30/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. ORDER: 11600.50

SAMPLING (INFORMATION OBTAINED AT SITE)

MORTAR MIXED BY: SOUTH SHORE MASONS	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMEN NO.: MC 617 A-F	LOCATION SAMPLED: REACTOR
DATE SAMPLED: 10-1-79	HOUR: 10-5 AM	WEATHER: N/A	AIR TEMP: 69 °F; MORTAR TEMP: 7[illegible] °F
READY MIXED CONCRETE: N/A	TIME AFTER INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A MIN	TRUCK CAPACITY: N/A C.Y.	TRUCK NO.: N/A
TIME OF MIXING: 3 MIN	REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
METHOD OF PLACING: N/A	SLUMP: N/A	TOTAL AIR: N/A PERCENT	CURING AT JOB: WET BURLAP 1 DAY
METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A	SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1000 LBS PER SQ IN AT 28 DAYS	SPECIFIED MIX: BY CONTRACTOR	

LOCATION OF SPECIMEN IN PLACEMENT: EL 150 9 50' ½ ℄ FROM 14.5' TO 22' W/ ½ ℄ - 2nd COURSE

MIX (QUANTITY PER BATCH)

(A) MOIST AGGREGATE	FINE AGGREGATE: 4.5 CU FT	WATER CONTAINED: N/A GALS	COARSE AGGREGATE: — LBS	WATER CONTAINED: N/A GALS	WATER ADDED: N/A GALS	TOTAL WATER CONTAINED: N/A GALS
(B) SURFACE DRY AGGREGATE	FINE AGGREGATE: — LBS		COARSE AGGREGATE: — LBS		WATER USED: — GALS	
QUANTITY OF CEMENT: 1 BAGS	YIELD: N/A CU YDS	CEMENT PER CU YD: N/A BAGS	WATER/CEMENT RATIO: N/A	AIR ENTRAINING ADMIXTURE PER CU YD: NONE OZS	SLUMP: N/A IN	

REMARKS: MORTAR BATCHED BY VOLUME

WATER REDUCING AGENT: NONE OZS; FLYASH: NONE LBS

MATERIALS

BRAND OF CEMENT: LONE STAR	TYPE OF CEMENT: II	MAXIMUM SIZE COARSE AGGREGATE: —	SOURCE OF FINE AGGREGATE: MASON MIX INC.
SOURCE OF COARSE AGGREGATE: S.W.H. CORSON & LIME	SPECIFIC GRAVITY OF AGGREGATES: FINE N/A, COARSE —	BRAND OF AIR ENTRAINING ADMIXTURE: NONE	BRAND OF WATER REDUCING AGENT: NONE

REMARKS: BATCHED ½ CU. FT. LIME

TESTS (TO BE FILLED IN BY TESTING LABORATORY)

TESTING LABORATORY: S&W-F.Q.C. SITE LAB	LOCATION: SHOREHAM N.Y.	DATE RECEIVED: 10-2-79	
CONDITION OF SPECIMENS: GOOD	DATE OF TEST: 10-8-79 10/29/79	DAYS OF CURING IN LABORATORY: 6 & 27 DAYS	

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC-617 A, B	2 X 2	10-8-79	6,900 / 7,150 LBS	N/A LBS	7 DAYS	3	N/A
C, D	↓	10-8-79 / 10/29/79	7,900 / 11,1[illegible] LBS	↓ LBS	7 / 28 DAYS	3 / 3	↓
E	↓	10/29/79	9,150 LBS	LBS	28 DAYS	2	
F	↓	10/29/79	10,500 LBS	LBS	28 DAYS	[illegible]	↓

AVERAGE: 1738 LBS PER SQ INCH AT 7 DAYS; AVERAGE: 2470 LBS PER SQ INCH AT 28 DAYS

REMARKS: MOTC 2-22-02

SIGNED: [illegible signature] [illegible] -79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SAMPLING

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	JOB ORDER: 11600.50	
MORTAR (SOUTH SHORE MASONRY)	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMEN NO'S: MC 603 A-F	LOCATION SAMPLED: REACTOR
DATE SAMPLED: 6-19-79	HOUR: 10:15 AM	WEATHER: N/A	AIR TEMP: 72 °F / MORTAR TEMP: 71 °F
READY-MIXED CONCRETE: N/A	TIME AFTER ADDITION OF CEMENT AND WATER: N/A MIN	TRUCK CAPACITY: N/A	SLUMP: N/A
TIME OF MIXING: 3 MIN	REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
METHOD OF PLACING: N/A	SLUMP: N/A IN	TOTAL AIR: N/A PERCENT	CURING AT SITE: WET BURLAP 1 DAY
METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A	SPECIFIED DESIGN COMPRESSIVE STRESS: 1800 LBS PER SQ IN AT 28 DAYS	SPECIFIED MIX: BY CONTRACTOR	

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEP. TANKS. SAMPLED AT EL 147' N. TK

MIX

FINE AGGREGATE: 4.5 CU FT	WATER CONTAINED: N/A GALS	WATER CONTAINED: N/A GALS	WATER ADDED: N/A GALS
QUANTITY OF CEMENT: 1 BAGS	YIELD: N/A CU YDS	CEMENT PER CU YD: N/A BAGS	WATER/CEMENT RATIO: N/A
AIR ENTRAINING ADMIXTURE PER CU YD: NONE	SLUMP: N/A IN	WATER REDUCING AGENT: NONE	FLY ASH: NONE

REMARKS: MORTAR BATCHED BY VOLUME

MATERIALS

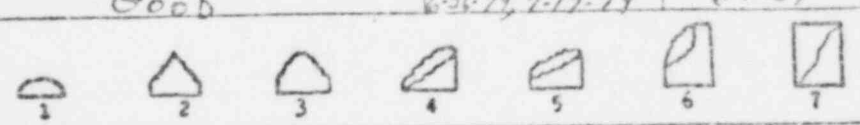
BRAND OF CEMENT: LONE STAR	TYPE OF CEMENT: II	MAXIMUM SIZE COARSE AGGREGATE: —	SOURCE OF FINE AGGREGATE: MasonMix Inc.
SOURCE OF LIME: GEN'L. CORSON LIME	SPECIFIC GRAVITY OF AGGREGATES: FINE N/A, COARSE —	BRAND OF AIR ENTRAINING ADMIXTURE: NONE	BRAND OF WATER REDUCING AGENT: NONE

REMARKS: BATCHED 1/2 CU. FT. LIME

TESTS

TESTING LABORATORY: S&W F.Q.C. SITE LAB	CITY: SHOREHAM, N.Y.	DATE RECEIVED: 6-20-79
CONDITION OF SPECIMENS: GOOD	DATE TESTED: 6-26-79, 7-17-79	DAYS OF CURING IN LABORATORY: 6 + 27 DAYS

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC-603 A, B	2 x 2	6-26-79	10,200 / 10,250 LBS	N/A LBS	7 DAYS	3	N/A
C	↓	6-26-79	10,200	↓	7	2	↓
D	↓	7-17-79	17,500 LBS	↓	28 DAYS	2	↓
E	↓	7-17-79	16,900 LBS	↓	28 DAYS	2	↓
F	↓	7-17-79	17,100 LBS	↓	28 DAYS	2	↓

AVERAGE: 2554 LBS PER SQ INCH AT 7 DAYS; AVERAGE: 4292 LBS PER SQ INCH AT 28 DAYS

REMARKS: M&TE # 2-22-02

TESTED BY: [signature]

DATE: 6-26-79, 7-17-79

LOCATION OF POUR

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 — PROJECT LOCATION: SHOREHAM N.Y. — JOB ORDER: 11600.56

MORTAR — SOUTH SHORE MASONS — SPECIMENS TAKEN BY: J. THOMPSON — SPECIMENS: MC 602 A-F — LOCATION SAMPLED: REACTOR

DATE SAMPLED: 6-12-79 — HOUR: 8 — N/A — AIR TEMP: 71 — MORTAR 72

N/A — N/A — TRUCK CAPACITY: N/A — N/A

3 — N/A — POINT OF PLACEMENT

N/A — N/A — N/A — WET BURLAP — 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A — SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1800 PSI AT 28 DAYS — BY CONTRACTOR

LOCATION OF SPECIMEN PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS. SAMPLED AT EL 1X6. N. TK.

FINE AGGREGATE: 4.5 CU FT — N/A — N/A — N/A — N/A

QUANTITY OF CU YD: 1 — N/A — N/A — N/A — NONE — N/A

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

BRAND OF CEMENT: LONE STAR — TYPE OF CEMENT: II — SOURCE OF FINE AGGREGATE: MASON MIX INC.

SOURCE OF LIME: GUNN CORSON — SPECIFIC GRAVITY OF AGGREGATES: N/A — BRAND OF AIR ENTRAINING ADMIXTURE: NONE

REMARKS: BATCHED 1/2 CU. FT. LIME — BRAND OF WATER REDUCING AGENT: NONE

TESTING LABORATORY: S&W F.A.C. SITE LAB — SHOREHAM, N.Y. — DATE RECEIVED: 6-19-79

CONDITION OF SPECIMENS: GOOD — DATE OF TESTS: 6-25-79, 7-16-79 — DAYS OF CURING IN LABORATORY: 6 & 27 DAYS

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-602-A/B	2 x 2	6-25-79	8650 / 9000	N/A	7	3	N/A
C	↓	6-25-79	8900	↓	7	3	↓
D		7-16-79	16,200		28	2	
E		7-16-79	16800		28	2	
F	↓	7-16-79	16,000	↓	28	2	↓

AVERAGE: 2204 LBS PER SQ INCH AT 7 DAYS — AVERAGE: 3917 LBS PER SQ INCH AT 28 DAYS

REMARKS: M&TE - 2 22-02

TESTED BY: [signatures] — TESTING LAB

6-25-79, 7-16-79

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | JOB ORDER: 11600.50

SAMPLING (INFORMATION OBTAINED AT SITE)

CONCRETE MIXED BY: MORTAR SOUTH SHORE MASONRY | SPECIMENS TAKEN BY: ED BARCOMB JR. | SPECIMEN NO.: MC-601A-F | LOCATION SAMPLED: REACTOR

DATE SAMPLED: 1/15/79 | HOUR: 8[45] A.M. | HELPER: SONNY | 64 | 75

READY MIXED CONCRETE: N/A | TIME APPROX. FROM ADDITION OF CEMENT AND WATER TO DISCHARGE: N/A MIN. | TRUCK CAPACITY: N/A C.Y. | N/A

TIME OF MIXING AT DISCHARGE POINT: 3 MIN. | REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A | SAMPLE TAKEN: ☑ AT POINT OF PLACEMENT

METHOD OF PLACING: N/A | SLUMP: N/A | TOTAL AIR: N/A PER CENT | CURING AT THE SITE: WET BURLAP 1 DAY DAYS

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A | SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1800 PSI AT 28 DAYS | SPECIFIED MIX: BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALLS TO WALL IN THE PHASE SEPARATOR TANKS, SIMILAR TO EL 145' 5 TANK

MIX (QUANTITIES PER BATCH)

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE: (A) WET AGGREGATE — FINE AGGREGATE 4.5 CU. FT. | WATER CONTAINED N/A GALS. | COARSE AGGREGATE — LBS. | WATER CONTAINED N/A GALS. | WATER ADDED N/A GALS. | TOTAL WATER CONTAINED N/A GALS.
(B) SURFACE DRY AGGREGATE — FINE AGGREGATE — LBS. | COARSE AGGREGATE — LBS. | WATER USED — GALS.

QUANTITY OF CEMENT: 1 BAGS | YIELD: N/A CU. YDS. | CEMENT PER CU. YD.: N/A BAGS | WATER-CEMENT RATIO: N/A | AIR ENTRAINING ADMIXTURE PER CU. YD.: NONE OZS. | SLUMP: N/A IN.

REMARKS: MORTAR BATCHED BY VOLUME | WATER REDUCING AGENT: NONE OZS. | NONE LBS.

MATERIALS

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | MAXIMUM SIZE COARSE AGGREGATE: — | SOURCE OF FINE AGGREGATE: MASONMIX INC.

SOURCE OF AGGREGATE: LIME: SEVAH. CORSON | SPECIFIC GRAVITY OF AGGREGATE: FINE N/A COARSE — | BRAND OF AIR ENTRAINING ADMIXTURE: NONE

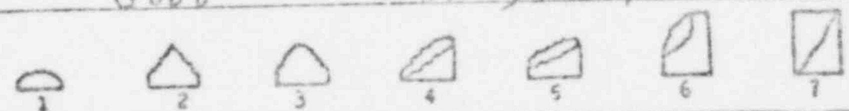
REMARKS: BATCHED ½ CU. FT. LIME | BRAND OF WATER REDUCING AGENT: NONE

TESTS (TO BE FILLED IN BY TESTING LABORATORY)

TESTING LABORATORY: S+W FQC SITE LAB | LOCATION: SHOREHAM, N.Y. | DATE RECEIVED: 6-16-79

CONDITION OF SPECIMENS: GOOD | DATE OF TEST: 6-22-79, 7-13-79 | DAYS OF CURING IN LABORATORY: 6 & 27 DAYS

TYPE OF BREAK



NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-601-A	2×2	6-22-79	7,450 LBS.	N/A LBS.	7 DAYS	3	N/A %
B			10,000 LBS.				
C	↓	6-22-79	9,450	↓	7	3	↓
D		7-13-79	14,600 LBS.	LBS.	28 DAYS	3	
E		7-13-79	14,550 LBS.	LBS.	28 DAYS	3	
F	↓	7-13-79	14,650 LBS.	↓ LBS.	28 DAYS	3	↓

AVERAGE: 2,209 LBS. PER SQ. INCH AT 7 DAYS | AVERAGE: 3650 LBS. PER SQ. INCH AT 28 DAYS

REMARKS: M+TC-2-22-02

SIGNED: [illegible signature] TECHNICIAN
6-22-79, 7-13-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | LOCATION: SHOREHAM N.Y. | JOB ORDER: 11600.50

MORTAR: South Shore Assoc. | SPECIMENS TAKEN BY: Ed. Barcomb Jr | MC-599A-F | Reactor

DATE SAMPLED: 6/14/79 | 9:30 AM | WEATHER: Sunny | 66° | MORTAR 71°

N/A | N/A | N/A | N/A

AT POINT OF PLACEMENT

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 28 DAYS | BY CONTRACTOR

LOCATION OF PLACEMENT: SOLID H. DENSITY BLOCK WALLS TO WALL IN THE PHASE SEPARATOR TANKS, SAMPLED @ EL 144' - SOUTH TANK

4.5 CU FT | N/A | N/A | N/A | N/A

1 | N/A | N/A | N/A | None | N/A

REMARKS: MORTAR BATCHED BY VOLUME | None | None

LONE STAR | II | Master Air Inc.

LIME: Lehigh Carson | N/A | None

REMARKS: BATCHED ½ CU. FT. LIME | None

S&W E.A.C. Site Lab | SHOREHAM, N.Y. | 6-15-79

6-21-79, 7-12-79 | 6 + 27

GOOD

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC599-A, B	2x2	6-21-79	10,650 / 10,500	N/A	7 days	[illegible]	N/A
C, D	↓	6-21-79 / 7-12-79	[illegible] / 12,250	↓	28 days	3	↓
E		7-12-79	10,600		28 days	2	
F	↓	7-12-79	10,800		28 days	3	

2529 LBS PER SQ INCH AT 7 DAYS | 2846 LBS PER SQ INCH AT 28 DAYS

REMARKS: NATC - 2-22-02

[illegible]

6-21-79, 7-12-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | JOB ORDER: 11600.50

MORTAR | A. THOMPSON | MC 598 A-F | REACTOR

DATE SAMPLED: 6-13-79 | HOUR: 9 45 | N/A | 69 | MORTAR 71

READY MIXED CONCRETE: N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT

METHOD OF RODDING: N/A | N/A - N/A PERCENT | WET BURLAP | 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A | 28 DAYS | SPECIFIED MIX: BY CONTRACTOR

LOCATION OF SAMPLE IN PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PURGE SEPARATOR TANKS. SAMPLED AT EL 1X3' [illegible]

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE: (A) MOIST AGGREGATE: 4.5 CU FT | N/A GALS | — | N/A GALS | N/A GALS | N/A GALS

(B) SURFACE DRY AGGREGATE: — | — | —

CEMENT: 4 BAGS | N/A | N/A BAGS | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | — | SOURCE OF AGGREGATE: MASON MIX INC.

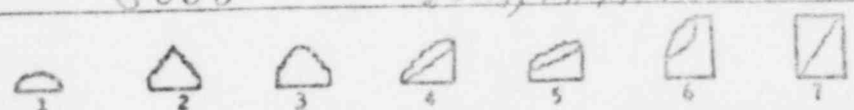
LIME: SAWH. CORSON | N/A | — | NONE

REMARKS: BATCHED 1/2 CU. FT. LIME | NONE

TESTING LABORATORY: S&W. F.Q.C. SITE LAB | LOCATION: SHOREHAM, N.Y. | DATE RECEIVED: 6-14-79

CONDITION OF SPECIMENS: GOOD | 6-20-79, 7-11-79 | 6 + 27 DAYS

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
MC 598 A/B	2 X 2	6-20-79	7,220 / 7,000 LBS	N/A LBS	7 DAYS	3 / 3	N/A
C / D	↓	6-20-79 / 7-11-79	7,100 / 17,000 LBS	↓	7 / 28 DAYS	3 / 3	↓
E	↓	7-11-79	16,600 LBS	↓	28 DAYS	3	↓
F	↓	7-11-79	16,650 LBS	↓	28 DAYS	3	

1777 LBS PER SQ INCH AT 7 DAYS | 4188 LBS PER SQ INCH AT 28 DAYS

REMARKS: M&TE # 2-22-02

[illegible signature]

6-20-79, 7-11-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.56

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 595 A-F | REACTOR

6/8/79 | 10 | N/A | 72 | MORTAR 70

N/A | N/A | N/A | N/A

N/A | AT POINT OF PLACEMENT

N/A | N/A - N/A | WET BURLAP | 1 DAY

N/A | 1500 PSI AT 28 DAYS | BY CONTRACTOR

SOLID HI DENSITY BLOCK WALLS ENCLOSING THE ... SEP. TKS. SAMPLED AT EL 132 - N. TK.

4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

5 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

LIME W.H. CARSON | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

S&W F.Q.C. SITE LAB | SHOREHAM, N.Y. | 6-4-79

GOOD | 6-15-79, 7-6-79 | 6-4-29

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC-595 A	2 x 2	6-15-79	11,500 / 11,660 LBS	N/A	7 DAYS	3 / 3	N/A
B		6-15-79	11,400		7	3	
D		7-6-79	13,350 LBS		28 DAYS	3	
E		7-6-79	13,550 LBS		28 DAYS	3	
F		7-6-79	134x LBS		28 DAYS	3	

2871 LBS PER SQ INCH AT 7 DAYS | 3346 LBS PER SQ INCH AT 28 DAYS

MATC-2-22-02

[illegible] signature

6-15-79 - 7-6-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. ORDER: 11600.50

MORTAR — South Shore Access | SPECIMEN TAKEN BY: A. THOMPSON | SPECIMEN NO.: MC 594A-F | LOCATION: REACTOR

DATE SAMPLED: 6-7-79 | HOUR: 12 45 | 72

N/A | N/A | N/A

N/A | N/A

N/A | N/A - N/A | Wet Burlap | 1 DAY

N/A | 28 days | By CONTRACTOR

LOCATION OF BUILDING PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEP. TKS. SAMPLED AT EL 181 N. TANK

4.5 | N/A | N/A | N/A | N/A

N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

CONN CARSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

SW FQC Site Lab | SHORHAM N.Y. | DATE RECEIVED: 6-8-79

CONDITION OF SPECIMENS: GOOD | 6-14-79, 7-5-79 | 6-8-79

TYPE OF BREAK: 1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC594 A B	2 x 2	6-14-79	13,800 13,000	N/A	7 days	3 3	N/A
C D		6-14-79 7-5-79	12,400 12,200		28 days	2	
E		7-5-79	11,850		28 days	3	
F		7-5-79	12500		28 days	3	

3183 | 7 days | 3046 | 28 days

M&TC. 2-22-02

[illegible] CHAIRMAN

6-14-79, 7-5-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. ORDER: 11600.56
MORTAR / SOUTH SHORE MASONS	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMENS: MC 592 A-F	LOCATION SAMPLED: REACTOR
DATE SAMPLED: 5-31-79	9 20	WEATHER: N/A	70	MORTAR 6?
N/A	N/A	TRUCK CAPACITY: N/A	TRUCK NO.: N/A
N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
N/A	N/A – N/A	WET BURLAP	1 DAY
METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A	28 DAYS	BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: 20" THICK SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEP. TKS. SAMPLED AT EL 130.5' N. TK.

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE	(A) BATCH QUANTITIES	9.5	N/A	N/A	N/A
	(B) SURFACE DRY AGGREGATE	—	—	—	
N/A	N/A	N/A	NONE	N/A	

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR	II	—	... MASON MIX INC.
PENN. CORSON LIME	N/A	—	NONE

REMARKS: BATCHED 1/2 CU. FT. LIME — NONE

TESTING LABORATORY: S&W F.Q.C. SITE LAB.	LOCATION: SHOREHAM N.Y.	DATE RECEIVED: 6-1-79
CONDITION OF SPECIMENS: GOOD	6-8-79	6 + 27 DAYS

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AVERAGE
MC-592 A, B	2 X 2	6-7-79	[illegible]	N/A	7 DAYS	2	N/A
C, D	↓	6-28-79	12,000	↓	28 DAYS	3	↓
E		6-28-79	13,600		28 DAYS	3	
F	↓	6-28-79	11,150		28 DAYS	3	

2908 LBS PER SQ INCH AT 7 DAYS 30% LBS PER SQ INCH AT 28 DAYS

M&TE- 2-22-02

6-7-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1	SHOREHAM N.Y.	11600.50
MORTAR — SOUTH SHORE MASONRY — A. THOMPSON	MC 591 A-F	REACTOR
5-30-79	9^{00} — N/A	67° — MORTAR 69°
N/A	N/A — N/A	N/A
3 MIN	N/A	AT POINT OF PLACEMENT
N/A	N/A — N/A PER TEST — WET BURLAP	1 DAY
N/A	1800 PSI AT 28 DAYS	BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS. SAMPLED AT EL 139.5' - SOUTH TANK

COMPLETE INFORMATION ON ETHER A OR B AS APPLICABLE	4.5 CU FT	N/A	—	N/A	N/A	N/A
	—		—		—	
1	N/A	N/A	N/A	NONE		N/A

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR	II	—	MASONMIX INC.
CONN. CORSON LIME	N/A	—	NONE

BATCHED ½ CU. FT. LIME — NONE

S&W Q.C. LAB	SHOREHAM N.Y.	5/31/79
GOOD	6/6/79, 6-27-79	6/27 DAYS

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-591A	2X2	6-6-79	14,000	N/A	7	3	N/A
-591B		6-6-79	10,300 LBS		7 DAYS	3	
-591C		6-6-79	9,000		7	3	
-591D		6-27-79	14,600 LBS		28 DAYS	3	
-591E		6-27-79	16,350 LBS		28 DAYS	3	
-591F		6-27-79	15,000 LBS		28 DAYS	3	

AVERAGE: 8433 LBS PER SQ INCH AT 7 DAYS, 3829 ... 28 DAYS

REMARKS: M&TE #2-22-02

SIGNED: [illegible]

A. Calabro FOR TESTING LAB.

[illegible]

6-27-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y | 11600.56

MORTAR | South Shore Masonry | A. THOMPSON | MC 590 A-F | REACTOR

DATE SAMPLED: 5-25-79 | 9 00 A.M. | N/A | AIR TEMP 68 | MORTAR 67

N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | SPECIFIED DESIGN COMPRESSIVE STRENGTH 1000 PER SQ IN AT 28 DAYS | SPECIFIED MIX BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY WALLS TO ENCLOSE THE PHASE SEP TKS. SAMPLED AT EL. 137 - SOUTH TANK

COMPLETE INFORMATION OR OTHER MARK OR MARK AS APPLICABLE: 4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A CU YD | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | None

LONE STAR | — | —

CONN CORSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | None

S+W F.A.C. Site Lab. SHOREHAM, N.Y. | 5-31-79

CONDITION OF SPECIMENS: GOOD | 6-1-79, 6-22-79 | 6-37

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC-590 A	2 X 2	6-1-79	11,000 / 10,350 LBS	N/A	7 DAYS	3	N/A
C / D	↓	6-1-79 / 6-22-79	10,550 / 16,000 LBS	↓	28 DAYS	3	↓
E		6-22-79	13,200 LBS		28 DAYS	3	
F	↓	6-22-79	13,800 LBS		28 DAYS	3	↓

2535 LBS PER SQ INCH | 7 DAYS | 3417 LBS PER SQ INCH | 28 DAYS

REMARKS: MATE-2-22-02

6-1-79, 6-22-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	JOB ORDER: 11600.50

SAMPLING

- MORTAR: SOUTH SHORE MASONS
- SPECIMENS TAKEN BY: A. THOMPSON
- SPECIMENS: MC 589 A-F
- LOCATION SAMPLED: REACTOR
- DATE SAMPLED: 5-24-79
- HOUR: 10 30
- AIR TEMP: 68
- MORTAR TEMP: 70
- READY MIXED CONCRETE: N/A
- TIME OF ADDITION OF CEMENT AND WATER TO DISCHARGE: N/A
- TRUCK CAPACITY: N/A
- TRUCK NO.: N/A
- REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A
- SAMPLE TAKEN: AT POINT OF PLACEMENT
- METHOD OF PLACING: N/A
- N/A
- N/A
- CURING: WET BURLAP 1 DAY
- METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A
- SPECIFIED DESIGN COMPRESSION: 10 ... 28
- SPECIMEN MADE BY: BY CONTRACTOR
- LOCATION OF CONCRETE PLACEMENT: HI DENSITY SOLID BLOCK WALLS TO ENCLOSE PHASE SEPARATOR TANKS - SAMPLED AT EL 175 SOUTH TANK

MIX

- 4.5 N/A N/A N/A N/A
- 1 N/A N/A N/A
- AIR ENTRAINING ADMIXTURE: NONE
- SLUMP: N/A
- REMARKS: MORTAR BATCHED BY VOLUME
- WATER REDUCING AGENT: NONE — NONE

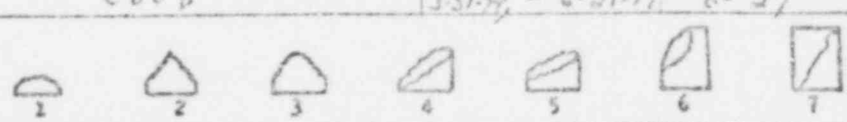
MATERIALS

- BRAND OF CEMENT: LONE STAR
- TYPE OF CEMENT: II
- SOURCE OF FINE AGGREGATE: ROSON ... INC.
- SOURCE OF ... LIME: GUNN. CARSON
- SPECIFIC GRAVITY OF AGGREGATES: N/A
- BRAND OF AIR ENTRAINING ADMIXTURE: NONE
- REMARKS: BATCHED 1/2 CU. FT. LIME
- NONE

TESTS

- TESTING LABORATORY: SWL Q.C. LAB
- LOCATION: SHOREHAM, N.Y.
- DATE RECEIVED: 5-25-79
- CONDITION OF SPECIMENS: GOOD
- DATE OF TESTS: 5-31-79 - 6-21-79
- DAYS OF CURING AT LABORATORY: 6-27

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-589 A	2 X 2	5-31-79	6,000 LBS	N/A	7 DAYS	2	N/A
B / C		5-31-79	8,900		7	2	
D		6-21-79	11,000 LBS		28 DAYS	3	
E		6-21-79	14,100 LBS		28 DAYS	2	
F		6-21-79	13,200 LBS		28 DAYS	3	

AVERAGE: 2500 LBS PER SQ INCH AT 7 DAYS — 3192 LBS PER SQ INCH AT 28 DAYS

REMARKS: H+TE 2-22-82

SIGNED: [illegible] FOR TESTING LAB.

5-31-79 - 6-21-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	LOCATION: SHOREHAM N.Y.	J.O. NUMBER: 11600.50
MORTAR — SOUTH SHORE MASONRY	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMEN NOS.: MC 587 A-F
DATE SAMPLED: 5-21-79	TIME: 9:00 AM	SECTION: N/A
TRUCK MIXER: N/A	N/A	TRUCK CAPACITY: N/A
REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
METHOD: N/A	N/A	N/A
METHOD OF RODDING SAMPLE FOR SPECIMENS: N/A	Sampled by Contractor	

STRUCTURE: REACTOR — ELEV. 69 — MORTAR

CURING: WET BURLAP — 1 DAY

LOCATION OF PLACEMENT: SOLID HI DENSITY BLOCK WALLS ENCLOSING THE PHASE SEPARATOR TANKS. SAMPLED AT EL 136-5. TANK

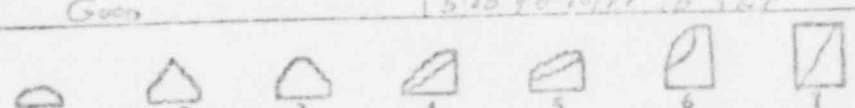
COMPLETE INFORMATION ON EITHER A OR B AS APPLICABLE	4.5	N/A	—	N/A	N/A
	—	—	—	—	
N/A	N/A	N/A	N/A	None	N/A

MORTAR BATCHED BY VOLUME — None — None

CEMENT: LONE STAR	TYPE: II	SOURCE: Mason Mix Inc.
LIME: PENN CORSON	N/A	None
BATCHED ½ CU. FT. LIME		None

S&W QC LAB	SHOREHAM N.Y.	5/22/79
CONDITION OF SPECIMEN: GOOD	5-28 & 6-18/79	6 & 27 DAYS

TYPE OF BREAK


1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 587 A	2X2	5-28-79	10,500	N/	7	3	N/
-5[illegible]		5-28-79	10,950 LBS		7 DAYS	3	
-5[illegible]		5-28-79	10,450	/A	7	3	/A
-5[illegible]		6-18-79	12,[illegible] LBS		28 DAYS	3	
-587E		6-18-79	15,[illegible]00 LBS	N/	28 DAYS	3	N/
-587F		6-18-79	16,[illegible]00 LBS	/A	28 DAYS	3	/A

2059 [illegible] — 7 DAYS — 4[illegible]0 — [illegible]98

REMARKS: MAT E-2-22-02

[illegible] Bennett for
A. [illegible] — FOR ENGINEER
[illegible]
[illegible]-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

Project: SNPS-1 — Project location: SHOREHAM N.Y. — J.O. No.: 11600.50

Mortar — South Shore Masonry — A. THOMPSON — MC 586 A-F — REACTOR

Date sampled: 5-17-79 — 8 45 — N/A — 70 — Mortar 70

Ready mixed concrete: N/A — N/A — N/A — N/A

N/A

Method: N/A — N/A — N/A — Wet Burlap — 1 DAY

N/A — 1800 PSI at 28 days — BY CONTRACTOR

Location of specimen placement: SOLID HI DENSITY BLOCK WALLS TO CROSS IN THE PHASE SEPARATER TANKS. SAMPLED AT EL 133' NORTH TANK

9.5 CU FT — N/A — — — N/A — N/A — N/A

— — —

N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — — — MASONMIX INC.

Lime: GOHN. CARSON — N/A — — — NONE

BATCHED ½ CU. FT. LIME — NONE

S&W Q.C. LAB — SHOREHAM N.Y. — 5/18/79

Condition of specimen: GOOD — 5/24/79, 6-14-79 — 6 RZ

Type of break:

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 586 A	2X2	5-24-79	12,500	N/A	7	3	N/A
B			13,000		7	3	
C		5-24-79	12,500		7	3	
D		6-14-79	17,000		28	3	
E		6-14-79	17,400	N/A	28	3	N/A
MC 586 F	2X2	6-14-79	17,500		28	3	

3200 — 7 — 4308 — 28

Remarks: M&TE - 2-22-02

5/24/79 - 6-14-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 — LOCATION: SHOREHAM N.Y. — J.O. NO.: 11600.50

MORTAR — SOUTH SHORE MASONS — A. THOMPSON — MC 584 A-F REACTOR

DATE SAMPLED: 5-16-79 — 10 45 — N/A — 69 — MORTAR

N/A — N/A — N/A — N/A

N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 128 — 28 — BY CONTRACTOR

LOCATION OF SPECIMENS PLACEMENT: SOLID HI DENSITY WALLS TO BLOCK IN THE PHASE SEP. TANKS. SAMPLED AT EL. 132 SOUTH TANK

4.5 CU FT — N/A — N/A — N/A — N/A

1 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — MASON MIX INC.

COMM. CORSON LIME — N/A — NONE

BATCHED 1/2 CU. FT. LIME — NONE.

E.O.C. SITE LAB — SHOREHAM, NY — 5/17/79

5/23/79, 6-13-79 — 6 & 27

CONDITION OF SPECIMENS: GOOD

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MORTAR A	2X2	5/23/79	6850	N/A	7	3	N/A
B		5/23/79	6750		7	3	
C		5/23/79	6800		7	3	
D		6-13-79	12,200		28	2	
E		6-13-79	13,100	N/A	28	2	N/A
F		6-13-79	13,500		28	2	

5175 — 7 — 3308 — 28

REMARKS: MITE 2-22-02

5/23/79 — 6-[illegible]

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.56

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 583 A-F | REACTOR

5-14-79 | 9 AM | N/A | 6.8 | MORTAR 10

N/A | N/A | N/A | N/A

N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 1800 PSI AT 28 DAYS | BY CONTRACTOR,

SOLID HI DENSITY BLOCK WALLS TO WALL IN THE PRESS SEP. TANKS. SAMPLED AT EL 131' . S TANK

#5 CU FT | N/A | — | N/A GALS | N/A GALS | N/A GALS

— | — | —

1 BAGS | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

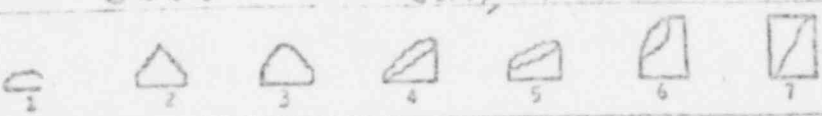
LIME KENNY CARSON | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

S&W QC LAB | SHOREHAM, N.Y. | 5/15/79

GOOD | 5-21-79, 6-11-79 | 6-27 DAYS

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 583 A	2X2	5/21/79	4500	N/A	7		N/A
MC 583 B		5/21/79	[illegible]		7 DAYS		
MC 583 C		5/21/79	4500		7		
MC 583 D		6-11-79	10,500		28 DAYS		
MC 583 E		6-11-79	9,450	N/A	28 DAYS		N/A
MC 583 F		6-11-79	10,950		28 DAYS		

REMARKS 2054 | 7 DAYS 2000 | 28 DAYS

MTC 2-22-02

[illegible]

DATE 5-11-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

MORTAR — BOTH SHORE MASONS — A. THOMPSON — MC 581 A-F — REACTOR

5-11-79 — 1 30 — N/A — 71 — MORTAR 70

N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 180° — 28 — BY CONTRACTOR

SOLID HI DENSITY BLOCK WALLS TO BLOCK IN THE PHASE SEP. TANKS, SAMPLED AT EL 121' - NORTH TANK

4.5 CU FT — N/A — — — N/A — N/A — N/A

1 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — — — MASON MIX INC.

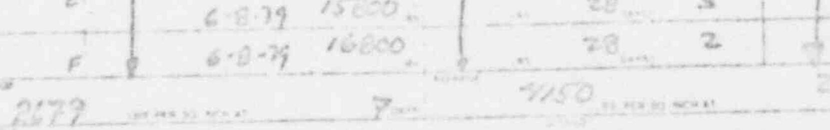
LIME: PENN CORSON — N/A — — — NONE

BATCHED ½ CU. FT. LIME — NONE

SNPS-1 SITE LAB SHOREHAM, N.Y. — 5/12/79

GOOD — 5/18/79 — 6-8-79 — 6,27

TYPE OF BREAK



NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC-581A	2X2	5-18-79	18,700	N/A	7	3	N/A
B		5-18-79	18,750		7	3	
C		5-18-79	19,400		7	3	
D		6-8-79	17200		28	2	
E		6-8-79	15800		28	3	
F		6-8-79	16800		28	2	

2179 LBS PER SQ INCH AT 7 DAYS — 4150 LBS PER SQ INCH AT 28 DAYS

REMARKS: MATC 2-22-02

[illegible signature]

6-8-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 — PROJECT LOCATION: SHOREHAM N.Y. — J.O. ORDER: 11600.50

MORTAR — SOUTH SHORE MASONS — H. THOMPSON — MC 518 A-F — REACTOR

DATE SAMPLED: 5-9-79 — HOUR: 1 00 — N/A — 71 — MORTAR 19

READY MIXED CONCRETE: N/A — N/A — TRUCK CAPACITY: N/A — N/A

3 — N/A — SAMPLE TAKEN: AT POINT OF PLACEMENT

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 1800 PSI AT 28 DAYS BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALLS TO BLOCK IN THE PU--E SEP. TANKS: SAMPLED AT EL 130' - SOUTH TANK.

4.5 CU. FT. — N/A — N/A — N/A — N/A

1 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — MASON MIX INC.

COWN CORSON LIME — N/A — NONE

BATCHED 1/2 CU. FT. LIME — NONE

Shoreham Site Lab — Shoreham, NY. — 5/10/79

CONDITION OF SPECIMENS: Good — 5/11/79, 6/6/79 — 6.27

TYPE OF BREAK

1 2 3 4 5 6 7

NO		SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-518	A	2x2	5-16-79	8300	N/A	7	3	N/A
	B		5-16-79	8500		7	3	
	C		5-16-79	7600		7	3	
	D		6-6-79	12,500		28	2	
	E		6-6-79	12,600		28	3	
	F		6-6-79	11,350		28	3	

2042 — 7 DAYS — 3038 — 28 DAYS

MSTE - 2-22-02

6/6/79, 6/6/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

MORTAR | EARTH SHORE MASONRY | A THOMPSON | MC 516 A-F | LOCATION SAMPLED: REACTOR

DATE SAMPLED: 5-7-79 | HOUR: 9:15 AM | N/A | 14 | MORTAR

READY MIXED CONCRETE: N/A | N/A | N/A | N/A

3 | N/A

METHOD: N/A | N/A - N/A | WET OVERLAP | 1 DAY

N/A | 130° ... 48 ... BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALLS TO BLOCK IN PHASE SEP TANKS. SAMPLE AT EL 128' - NORTH TANK

4.5 | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

SENY CORBIN LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

SNPS-1 Site Lab Shoreham NY | DATE RECEIVED: 5-8-79

CONDITION OF SPECIMENS: Good | 5/14/79, 6-4-79 | 6, 27

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC-516 A	2×2	5-14-79	8400	N/A	7	3	N/A
B		5-14-79	8900		7	3	
C		5-14-79	7900		7	3	
D		6-4-79	12,050		28	3	
E		6-4-79	11,000		28	2	
F		6-4-79	12,100		28	3	

2100 | 7 | 2921 | 28

MATE - 2-22-02

cht/ztp, 6-4-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: Shoreham N.Y.	JOB ORDER: 11600.50
MORTAR: North Shore Mortar	A. Thompson	MC SIX A-P	LOCATION SAMPLED: Reactor
DATE SAMPLED: 5-11-79	10 AM	N/A	63	63
N/A	N/A	TRUCK CAPACITY: N/A	TRUCK NO.: N/A
N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
N/A	N/A	N/A	Wet Burlap	1 DAY
N/A	1200 PSI AT 28 DAYS	By Contractor

LOCATION OF BATCHING PLACEMENT: Walls for Phase Sep. TKS - AT EL 126'4"

Refer to E&DCR F-8265

4.5 CU. FT.	N/A	—	N/A	N/A	N/A
—	—	—	—		
1 SACK	N/A	N/A	N/A	None	N/A

REMARKS: Mortar Batched By Volume — None — None

Lone Star — II — — — Alsen Mix Inc.

John Corson — Lime — N/A — — — None

REMARKS: Batched ½ cu. ft. Lime — None

SNPS-1 S.&W. Lab — Shoreham N.Y. — 5-5-79

Good — 5-11-79, 6-1-79 — 6, 27 DAYS

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 836 A	2 x 2	5-11-79	7,400	N/A	7	3	N/A
B	↓	5-11-79	7,500 LBS	↓	7 DAYS	3	↓
C	↓	5-11-79	7,100	↓	7	3	↓
D	↓	6-1-79	11,160 LBS	↓	28 DAYS	2	↓
E	↓	6-1-79	11,260 LBS	↓	28 DAYS	3	↓
F	↓	6-1-79	11,300 LBS	↓	28 DAYS	3	↓

STRENGTH: 1833 LBS PER SQ IN AT 7 DAYS — 2804 LBS PER SQ IN AT 28 DAYS

REMARKS: M&TE 2-22-02

5-11-79, 6-1-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SLIP TO THE LABORATORY

PROJECT: SNPS-1 — SHOREHAM N.Y. — 11600.56

MORTAR — A. THOMPSON — MC 572 A-F — REACTOR

4-27-79 — 11 — N/A — 60 — MORTAR

N/A — N/A — N/A — N/A

3 — N/A — AT POINT OF PLACEMENT

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 1800 — 28 — BY CONTRACTOR

LOCATION OF PLACEMENT: SAMPLED AT EL 141

SOLID HI DENSITY BLOCK WALL 30' W/E FR. 17' to 26' W/E

4.5 — N/A — N/A — N/A — N/A

N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — MasonMix Inc.

GEWH. CERSON LIME — N/A — NONE

BATCHED 1/2 CU. FT. LIME — NONE

PCC Site Lab — Shoreham N.Y. — 4/28/79

Good — 5/4/79, 5/25/79 — 6, 27

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC 572 A	2x2	5-4-79	10,600	N/A	7	3	N/A
B		5-4-79	10,100		7	3	
C		5-4-79	9,100		7	3	
D		5-25-79	11,900		28	2	
E		5-25-79	12,800		28	2	
F		5-25-79	12,600		28	2	

2582 — 7 — 3087 — 28

M&TE 2-22-02

6-4-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 — Shoreham N.Y. — 11600.50

MORTAR — South Shore Blasters — A. Thompson — MC 571 A-F — Reactor

4-26-79 — 9:30 — N/A — 61 — Mortar

N/A — N/A — N/A — N/A

N/A

N/A — N/A — N/A — Wet Burlap — 1 Day

N/A — 28 — By Contractor

SAMPLED AT EL 135

Seaco Hi Density Block Wall 30' N.S. From 18' to 26' W.E.

4.5 — N/A — N/A — N/A — N/A

3 — N/A — N/A — N/A — None — N/A

Mortar Batched By Volume — None — None

Lone Star — II — Mason Mix Inc.

Conn Corson Lime — N/A — None

Batched ½ cu. ft. Lime — None

FQC Site Lab Shoreham, N.Y. — 4-27-79

Good — 5-3-79, 5-24-79 — 7, 27

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC-571 A	2x2	5-3-79	10,300	N/A	7	3	N/A
B		5-3-79	11,700		7	3	
C		5-3-79	10,[illegible]		7	3	
D		5-24-79	10,250		28	3	
E		5-24-79	12,100		28	3	
F		5-24-79	11,000		28	2	

AVERAGE: 2758 — 7 — 2940 — 28

REMARKS: M&TE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH "ES" SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. NO.: 11600.50
SPECIMEN MADE AT: SOUTH SHORE MASONRY — MORTAR	SPECIMEN MADE BY: A. THOMPSON	SPECIMEN NO.: MC 570 A-F — LOCATION: REACTOR
DATE SAMPLED: 4-25-79	TIME: 10 AM	N/A — 64 — 65
N/A	N/A	N/A — N/A
9	N/A	1 DAY
N/A	N/A — N/A	BY BURLAP
N/A	1250 PSI AT 28 DAYS	BY CONTRACTOR

LOCATION OF SPECIMEN PLACEMENT: SAMPLED AT EL 131'

SOLID HI DENSITY BLOCK WALL 30' ½ B FROM 13' TO 26' W/B

4.5 CU FT	N/A	—	N/A	N/A	N/A
—	—	—			
9	N/A	N/A	N/A	NONE	N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — — — CASONMIX INC.

LIME: PENN CERSAN — N/A — — — NONE

BATCHED ½ CU. FT. LIME — NONE

TESTING LABORATORY: FDC Site Lab — Shoreham, N.Y — DATE RECEIVED: 4-26-79

CONDITION: Good — 5-2-79, 5/23/79 — 6, 27

TYPE OF BREAK:

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	%
MC-570 A	2x2	5-2-79	[illegible]	N/A	7	3	N/A
B		5-2-79	8350		7	3	
C		5-2-79	9200		7	3	
D		5/23/79	16,900		28	2	
E		5/23/79	14,900		28	3	
F		5/23/79	17,300		28	3	

2230 — 7 — 4037 — 28

M&TE 2-22-02

5-2-79 — 5-23-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SAMPLING

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. NO.: 11600.56
MORTAR; SOUTH INNER ANNULUS	SPECIMENS TAKEN BY: A. THOMPSON	SPECIMENS: MC 562 A-F
LOCATION SAMPLED: REACTOR		
DATE SAMPLED: 4/23/79	2:00	WEATHER: N/A
BATCH NO.: 65	TRUCK NO.: N/A	TRUCK CAPACITY: N/A
READY MIXED CONCRETE: N/A	TIME AFTER INTRODUCTION OF CEMENT AND WATER TO DISCHARGE: N/A	
SLUMP: 3	REVOLUTIONS OF MIXER OR AGITATOR: N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT
N/A	SLUMP: N/A – N/A	CURED AT SITE: WET BURLAP, 1 DAY
METHOD OF PACKING SAMPLES FOR SHIPMENT: N/A	28 DAYS BY CONTRACTOR	

LOCATION OF CONCRETE PLACEMENT: SOLID HI DENSITY BLOCK WALL 14' TO 18' W/O FROM 58'0" TO 66'0" MSL

4.5 CU FT	N/A	—	N/A	N/A
N/A	N/A	N/A	NONE	N/A

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR	II	MASON MIX INC.
CONN CORSON LIME	N/A	NONE

BATCHED 1/2 CU. FT. LIME — NONE

S+W F.Q.C. SITE LAB	SHOREHAM, N.Y.	4-24-79
CONDITION OF SPECIMENS: GOOD	4-30-79, 5-21-79	

TYPE OF BREAK

TESTS

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC 562 A	2x2	4-30-79	11,250	N/A	7 DAYS	3	N/A
B		4-30-79	11,300		7	3	
C/D		5/21/79	15,450		28 DAYS	2	
E		5/21/79	11,650		28 DAYS	2	
F		5/21/79	13,500		28 DAYS	3	

2038 — 7 DAYS — 3634 — 28 DAYS

MATE# - 3-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1		SHOREHAM N.Y.	11600.50
MORTAR	South Shore Masonry	A. Thompson	MC 564 A-F	REACTOR
4-9-79	9 20	N/A	62	65
N/A		N/A	N/A	N/A
3	N/A		AT POINT OF PLACEMENT	
N/A		N/A - N/A	Pittsburgh	1 DAY
N/A		1800 PSI at 28 DAYS	BY CONTRACTOR	

LOCATION OF PLACEMENT: Door Opening At Elevator EL 82'

45 20	N/A	—	N/A	N/A	N/A
—		—		—	
1	N/A	N/A	N/A	None	N/A

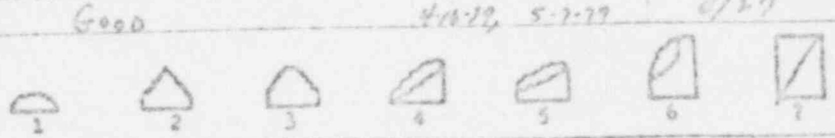
REMARKS: Mortar Batched By Volume — None — None

Lone Star	II	—	Nixon Mix Inc.
Conn. Corson Lime	N/A	—	None

REMARKS: Batched ½ cu. ft. Lime — None

E.P.C. Site Lab	Shoreham, N.Y.	4-10-79
Good	4-16-79, 5-7-79	6/27

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
MC 564 A	2X2	4-16-79	[illegible]	N/A	7	3	N/A
B		4-16-79	[illegible]		7	3	
C		4-16-79	[illegible] 50		7	3	
D		5-7-79	17,800		28 DAYS	3	
E		5-7-79	17,700		28 DAYS	3	
F		5-7-79	17,500		28 DAYS	3	

4442 LBS PER SQ. IN. AT 7 DAYS — 4417 LBS PER SQ IN AT 28 DAYS

Note: 2-22-82

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | NORTH SHORE MASONRY | A. THOMPSON | MC 562 A-F | REACTOR

4-5-79 | 9 15 | N/A | 63 | MORTAR 67

N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 1800 PSI AT 28 DAYS | BY CONTRACTOR

SOLID HI DENSITY WALL 24 1/2 ℄ FROM 31.5' TO 42' E/S ℄. SAMPLED AT EL 141.5'

4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

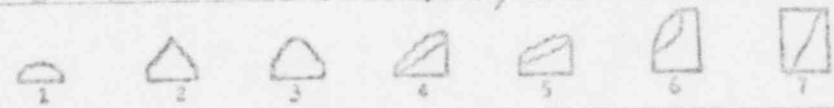
LONE STAR | II | — | MASON MIX INC.

LIME PENN. CORSON | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

P.O.C. SITE LAB | SHOREHAM, N.Y. | 4-6-79

GOOD | 4-12-79, 5-3-79 | 6-27



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
1157A	2X2	4-12-79	6350 / 6250	N/A	7	3 / 3	N/A
C	↓	4-12-79	6,340	↓	7	3	↓
D	↓	5-3-79	11,110	↓	28	3	↓
E	↓	5-3-79	11,600	↓	28	3	↓
F	↓	5-3-79	11,000	↓	28	3	↓

1157 | 7 | 2808 | 28

ANTIE-2-02-82

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONS | A. THOMPSON | MC 560 A-F | REACTOR

4-3-79 | 9 30 | N/A | 63 | MORTAR 66

N/A | N/A | N/A | N/A

N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 1800 28 BY CONTRACTOR

SOLID HI DENSITY BLOCK WALL 24' 1/4 E FROM 31'5" TO 42' 1/4 R SAMPLED AT EL 135'

4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

4 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

KEVIN CORSON LIME | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

F.Q.A. SITE LAB | SHOREHAM, N.Y. | 4-11-79

GOOD | 4-10-79, 5-1-79 | 6, 27

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
11-560 A	2 x 2	4-10-79	3450	N/A	7	3	N/A
B		4-10-79	3600		7	3	
C		4-10-79	3500		7	3	
D		5-1-79	16,400		28	3	
E		5-1-79	15,960		28	3	
F		5-1-79	15,200		28	3	

217 | 7 | 3879 | 28

M-TC 2-22-82

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.56

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 558 A-F | REACTOR

3-30-79 | 10:00 | N/A | 66 | 61

N/A | N/A | N/A | N/A

N/A

N/A | N/A - N/A | WET BURLAP | 1 DAY

N/A | 1:00 | 28 | BY CONTRACTOR

SOLID HI DENSITY WALL 24' S/O ℄

FROM 31.5' TO 42' S/O ℄ SAMPLED AT EL 128'

4.5 | N/A | N/A | N/A | N/A

N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | MASONRY INC.

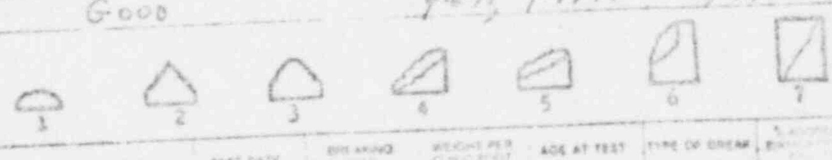
LOWN CARSON LIME | N/A | NONE

BATCHED 1/2 CU. FT. LIME | NONE

P.O.C. SITE LAB SHOREHAM, N.Y. | 3-31-79

GOOD | 4-6-79, 4-27-79 | 6, 27

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC 558 A	2 X 2	4-6-79	5,800	N/A	7	3	N/A
B			6,000		7	3	
C		4-6-79	6,150		7	3	
D		4-27-79	11,400		28	3	
E		4-27-79	11,300		28	3	
F		4-27-79	10,700		28	3	

1329 | 7 | 2283 | 28

NOTE - 2-22-0 A

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1

PROJECT LOCATION: SHOREHAM N.Y.

JOB ORDER: 11600.50

MORTAR — A. THOMPSON — MC 556 A-F — REACTOR

3/27/79 — 1^{20} — N/A — 62

N/A — N/A — N/A — N/A

N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — BY CONTRACTOR

LOCATION OF STRUCTURAL PLACEMENT: SOLID HI DENSITY BLOCK WALL 10' W/S E FROM 19' TO 26' W/S R SAMPLED AT EL 1 ...'

4.5 CU FT — N/A — N/A — N/A — N/A

1 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — ... MIX INC.

CONN. CARBON LIME — N/A — NONE

BATCHED ½ CU. FT. LIME — NONE

FCC Site Lab — Shoreham, NY — 03/28/79

CONDITION OF SPECIMENS: Good — 4/3/79, 4/24/79 — 6, 27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
GC-556 A	2×2	4/3/79	6800	N/A	7	3	N/A
B	↓	4/3/79	4700	↓	7	3	↓
C	↓	4/3/79	6600	↓	7	3	↓
D	↓	4/24/79	13200	↓	28	3	↓
E	↓	4/24/79	13800	↓	28	3	↓
F	↓	4/24/79	10,900	↓	28	3	↓

1650 — 7 — 3367 — 28

MATE
2-22-02

REPORT OF COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NUMBER: 11600.50

STRUCTURE SAMPLED: REACTOR

SEVEN SHEAR MORTAR — A. THOMPSON — MC 555 A-F

DATE SAMPLED: 3-26-79 | TIME: 9 [illegible] | N/A | 12 | COMPRESSIVE MORTAR

N/A | N/A | N/A | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | N/A

N/A | 1800 MASONRY 28 DAY — BY CONTRACTOR

LOCATION OF CONCRETE IN ELEMENT: SOLID HI DENSITY BLOCK WALL 40% R & FROM 19' TO 26' W/ R. SAMPLED AT EL 141'

4.5 CU FT | N/A | — | N/A | N/A | N/A

N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | EISENMIX INC.

GOWN CORSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

FOC Site Lab | Shoreham NY | 3/27/79

Good | 4/2/79, 4/23/79 | 6, 27

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC555 A	2x2	4/2/79	6220	N/A	7	3	N/A
B	↓	4/2/79	5950	↓	7	3	↓
C	↓	4/2/79	5700	↓	7	3	↓
D	↓	4/23/79	12,000	↓	28	3	↓
E	↓	4/23/79	12,500	↓	28	3	↓
F	↓	4/23/79	13,100	↓	28	3	↓

1409 | 7 | 6050 | 28

REMARKS:

M&TE 2-22-02

SIGNED: [illegible signature]

4/2/79 | 4/23/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. NO.: 11600.50
MORTAR / SOUTH SHORE MATERIAL / A. THOMPSON	MC 553 A-F	REACTOR
3-23-79	10 20 / N/A	65 / 67
N/A	N/A	N/A / N/A
3 / N/A		AT POINT OF PLACEMENT
N/A	N/A / N/A	WET BURLAP / 1 DAY
N/A	1800 PSI @ 28 DAYS BY CONTRACTOR	

LOCATION: 50 NO HI DENSITY BLOCK WALL 10' W/E R F FROM 10' TO 26' W/ R. SAMPLED AT EL 137

45 / N/A / — / N/A / N/A / N/A

— / — / — / —

3 / N/A / N/A / N/A / NONE / N/A

MORTAR BATCHED BY VOLUME / NONE / NONE

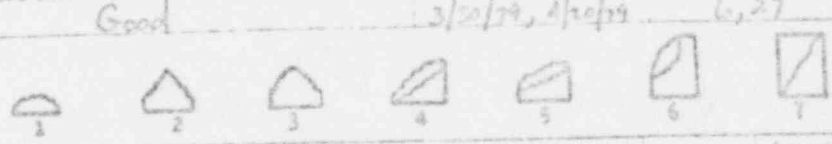
LONE STAR / II / — / RISONAIR INC.

LIME: AGWAY CARSON / N/A / — / NONE

BATCHED 1/2 CU. FT. LIME / NONE

TESTING LABORATORY		DATE RECEIVED
EDC Site Lab	Shoreham N.Y.	3/29/79
CONDITION OF SPECIMENS: Good	3/30/79, 4/20/79	6, 27

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% MAXIMUM STRENGTH
MC 553 A	2x2	3/30/79	6300	N/A	7	3	N/A
B		3/30/79	6900		7	3	
C		3/30/79	6300		7	3	
D		4/20/79	10,950		28	3	
E		4/20/79	13,600		28	3	
F		4/20/79	13,200		28	3	

1633 / 7 / 3133 / 28

MTE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	J.O. ORDER: 11600.56
MORTAR / SOUTH SHORE MASONS	A. THOMPSON	MC 551 A-F / REACTOR B.
DATE: 3-20-79	8 30 A.M.	N/A / 68

N/A N/A N/A N/A

3 N/A

N/A N/A N/A WET BURLAP 1 DAY

N/A 1800 AT 28 DAYS BY CONTRACTOR

LOCATION OF SPECIMEN PLACEMENT: SOLID HI DENSITY BLOCK WALL NORTH EAST

OF SOUTH OR WEST HEAT EXCHANGER, SAMPLED AT EL 49.0'

4.5 CF N/A — N/A N/A N/A

3 N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR C — PRESENAIR INC.

SAND: CORSON N/A — NONE

BATCHED ½ CU. FT. LIME NONE

FC Site Lab Shoreham, New York 3/21/79

Good 3/27/79, 4-17-79 7/28

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC551 A	2x2	3-27-79	6,600	N/A	7	3	N/A
B	2x2	3-27-79	6,500		7	3	
C	2x2	3-27-79	6,500		7	3	
D	2x2	4-17-79	12,000		28	3	
E	2x2	4-17-79	13,300		28	3	
F	2x2	4-17-79	13,900		28	3	

1683 7 3183 28

MKE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

Project: SNPS-1 — Shoreham N.Y. — 11600.56

Mortar — South Shirt Masonry — A. Thompson — MC 550 A-F — Reactor

3-19-79 — 8 — N/A — 65 —

N/A — N/A — N/A — N/A

3 — N/A — At point of placement

N/A — N/A — N/A — Wet Burlap — 1 Day

N/A — 130° — 28 — By Contractor

Solid Hi Density Block Wall North East & South of West Heat Exchange. Sampled at El. 40'

4.5 — N/A — — — N/A — N/A — N/A

— — —

3 — N/A — N/A — N/A — None — N/A

Mortar Batched By Volume — None — None

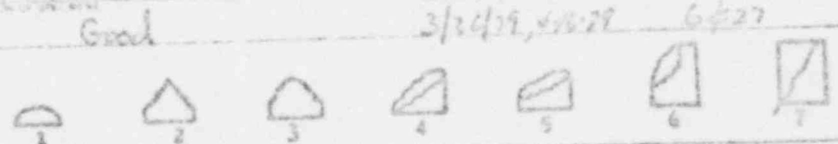
Long Star — II — — — Masonflex Inc.

Conn Carson Lime — N/A — — — None

Batched ½ cu. ft. Lime — None

PSC Site Lab — Shoreham NY — 3/20/79

Good — 3/26/79, 4/16/79 — 6 & 27



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
A	2x2	3-26-79	7800	N/A	7	3	N/A
B	2x2	3-26-79	7400		7	3	
C	2x2	3-26-79	7200		7	3	
D	2x2	4-16-79	13,300		28	3	
E	2x2	4-16-79	13,750		28	3	
F	2x2	4-16-79	13,500		28	3	

1933 — 7 — 3379 — 28

M&TE 2-22-02

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

WEATHER: SUNNY, SHORT, CHANGE | A. Thompson | MC-549 A-F | Reactor Bldg

DATE: 3-16-79 | 830 | N/A | 66 | 68

N/A | N/A | N/A | N/A

N/A

N/A | N/A - N/A | WET BURLAP | 1 DAY

N/A | 28 BY CONTRACTOR

Solid high density block wall North, East & South of West Heat Exchanger @ El. 95'-0"

4.5 CU. FT. | N/A | — | N/A | N/A | N/A

— | — | —

4 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

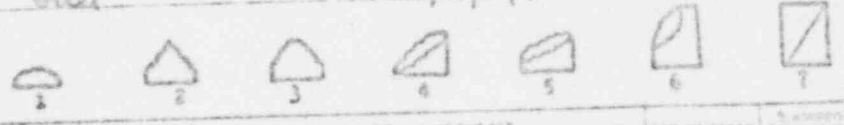
LONE STAR | II | — | ATLANTIC MIX INC.

LIME: SNOW. CARSON | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

H&C Site Lab | Shoreham, New York | 3/17/79

Good | 3/23/79, 4-13-79 | 6/27



NO	SIZE	TEST DATE	CRUSHING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
A	2x2	3-23-79	9200	N/A	7	3	N/A
MC-549 B	2x2	3-23-79	7800		7	3	
C	2x2	3-23-79	8200		7	3	
D	2x2	4-13-79	13,300		28	3	
E	2x2	4-13-79	9,660		28	3	
F	2x2	4-13-79	13,300		28	3	

1933 | 7 | 3013 | 28

MATE 2-23-02

3/23/79 | 4-13-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 — SHOREHAM N.Y. — 11600.50

MORTAR — SOUTH SHORE MASONS — A. THOMPSON — MC SYS A-E REACTOR

3/15/79 — 8 YS — N/A — 67 — MORTAR 78

N/A — N/A — N/A — N/A

3 — N/A — AT POINT OF PLACEMENT

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 180° — 28 — BY CONTRACTOR

SOLID HI DENSITY BLOCK WALL NORTH, EAST & SOUTH OF THE WEST HEAT EXCHANGE SAMPLE AT EL 43'

4.5 CU FT — N/A — — — N/A — N/A — N/A

— — —

1 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — — — ATLAN AIR INC.

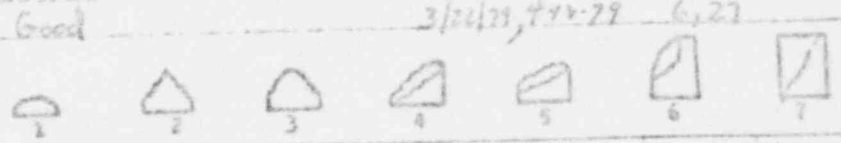
KOHN CORSON LIME — N/A — — — NONE

BATCHED 1/2 CU. FT. LIME — NONE

FQC Site Lab — Shoreham, New York — 3/15/79

Good — 3/22/79, 4-12-79 — 6, 27

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC548 A	2x2	3/22/79	9320	N/A	7	3	N/A
B	2x2	3/22/79	8000		7	3	
C	2x2	3/22/79	8000		7	3	
D	2x2	4-12-79	13,160		28	3	
E	2x2	4-12-79	13,100		28	3	
F	2x2	4-12-79	14,000		28	3	

1975 — 7 — 3331 — 28

MATC-2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | JOHN SHORE MASONRY | A. THOMPSON | MC 547 A-F | REACTOR

3-14-79 | 9 15 | N/A | 59 | MORTAR 59

N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 1800 | 28 | BY CONTRACTOR

LOCATION OF BRANCHING PLACEMENT: 18" SOLID HI DENSITY BLOCK WALL FROM COL Y 10'3" TOWARD COL S. SAMPLED AT EL 44½

4.5 CU FT | N/A | — | N/A | N/A | N/A

1 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASONMIX INC.

EDW H. CORSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

FQC Site Lab Shoreham, New York 3/15/79

Good 3/21/79, 4-11-79 6, 27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC 547 A	2×2	3-21-79	6600	N/A	7	3	N/A
B	2×2	3-21-79	6100		7	3	
C	2×2	3-21-79	5500		7	3	
D	2×2	4-11-79	11,600		28	3	
E	2×2	4-11-79	10,750		28	3	
F	2×2	4-11-79	10,250		28	3	

1492 | 7 | 2717 | 28

MBE 2-22-02

4/11/79, 4-11-79

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 546 A-F | REACTOR

3-13-79 | 9 45 | N/A | 59 | MORTAR

N/A | N/A | N/A | N/A

N/A

N/A | N/A . N/A | WET BURLAP | 1 DAY

N/A | 28 By CONTRACTOR

SOUTH WALL OF PIPE CHASE AT AZIM 65° TOPPED OFF

AT EL 178'5" SAMPLE AT EL 170'

4.5 CU FT | N/A | N/A | N/A | N/A

N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

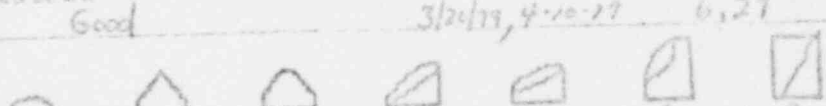
GENL. CORSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

FOC S.&W. Lab | Shoreham, New York | 3-14-79

Good | 3/21/79, 4-10-79 | 6, 27

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% ...
MC-546 A	2×2	3-20-79	5,100	N/A	7	3	N/A
B	2×2	3-20-79	9,000		7	3	
C	2×2	3-20-79	8,100		7	3	
D	2×2	4-10-79	13,900		28	3	
E	2×2	4-10-79	16,350		28	3	
F	2×2	4-10-79	16,000		28	3	

2317 | 7 | 3846 | 28

MATE 2-22-02 | NO. 01910

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | 11600.56

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 545 A-F | REACTOR

3-12-79 | 9 | N/A | 67 | MORTAR 76

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 18 ... 28 ... BY CONTRACTOR

LOCATION: PIPE CHASE MASONRY BLOCK WALL AT AZIM 45° ON SLAB 150 SAMPLE TAKEN AT EL 163

4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

1 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

CONN. CORSON LIME | N/A | — | NONE

REMARKS: BATCHED 1/2 CU. FT. LIME | NONE

FOC Site Lab | Shoreham, NY | 3-13-79

Good | 3/19/79, 4-9-79 | 6, 27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
A3-035 A	2x2	3-19-79	13,800	N/A	7	3	N/A
B			11,000		7	3	
C		3-19-79	11,000		7	3	
D		4-9-79	15,200		28	3	
E		4-9-79	15,500		28	3	
F		4-9-79	17,900		28	2	

3167 | 7 | 4054 | 28

MATB 3-2x-82 ... 1800

13,400, 4-9-79

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 — SHOREHAM N.Y. — 11600.56

MORTAR — SOUTH SHORE MASONS — A. THOMPSON — MC 5AA A-F — REACTOR — 25 — MORTAR 29

3-9-79 — 10 15 AM — N/A

N/A — N/A — N/A — N/A

N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 1800 PSI AT 28 DAYS — BY CONTRACTOR

LOCATION OF PLACEMENT: PIPE CHASE MASONRY BLOCK WALL AT AZIM 45

& SLAB 150. SAMPLED AT EL 159

4.5 CU FT — N/A — N/A — N/A — N/A

1 BAGS — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

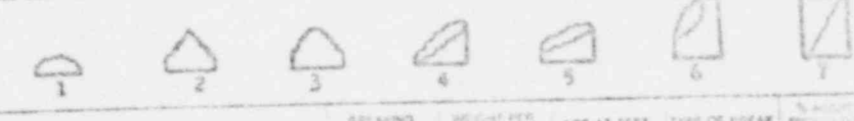
LONE STAR — II — — — MASONMIX INC.

CONN. CARSON LIME — N/A — — — NONE

BATCHED ½ CU. FT. LIME — NONE

FQC Site Lab — Shoreham, New York — 3-10-79

Good — 3-16-79, 4-6-79 — 7, 28 DAYS



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
MC-5AA A / B	2x2	3-16-79	7200 lbs / 7700 lbs	N/A	7	3 / 3	N/A
C	2x2	3-16-79	7200 lbs		7	3	
D	2x2	4-6-79	13,200 lbs		28	3	
E	2x2	4-6-79	9,450 lbs		28	3	
F	2x2	4-6-79	9,100 lbs		28	2	

1817 PSI AT 7 DAYS — 2571 PSI AT 28 DAYS

MQTE 2-22-02 — ... — 3/15/79 4-6-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENG[illegible]EERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | Shoreham N.Y. | 11600.56

MORTAR | South Shore Masonry | H. Calabro | MC-542AF | Reactor R

3-6-79 | 10 15 | N/A | 57 | Mortar 60

N/A | N/A | N/A | N/A

N/A | ✓ At point of placement

N/A | N/A – N/A | Wet Burlap | 1 Day

N/A | 1850 psi at 28 days | By Contractor

Solid Hi Density Masonry Wall on Slab 40, North West of South of Heat Exchanger At Az 270° Sampled At EL 49'

4.5 cu. ft. | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

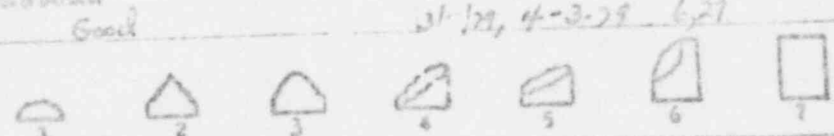
Lone Star | II | — | Mitchell Mix Inc.

Lime: Chem. Carson | N/A | — | None

Batched ½ cu. ft. Lime | None

EIC Site Lab | Shoreham NY | 3-7-79

Good | 3-13-79, 4-3-79 | 6, 27



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-542 A	2x2	3-13-79	9950	N/A	7	2	N/A
B	2x2	3-13-79	10550		7	3	
C	2x2	3-13-79	9100		7	2	
D	2x2	4-3-79	10,350		28	2	
E	2x2	4-3-79	8,450		28	2	
F	2x2	4-3-79	8800		28	2	

2471 | 7 days | 2300 | 28 days

NOTE #2-22-02

[illegible] 4-3-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. ORDER: 11600.50

MORTAR | SOUTH SHORE MASONRY | H. CALARCO | MC-541-A-F | REACTOR

DATE SAMPLED: 3-5-79 | 9 PM | N/A | 59 | MORTAR 61

N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT | WET BURLAP | 1 DAY

N/A | N/A | N/A

N/A | 1800 PSI AT 28 DAYS | BY CONTRACTOR

LOCATION OF STRUCTURAL MASONRY: SOLID HI DENSITY MASONRY WALL ON SLAB VC, NORTH WEST & SOUTH OF HEAT EXCHANGER AT AZIM. 270° SAMPLED AT EL 47.

7.5 CU FT | N/A | N/A | N/A | N/A

1 | N/A | N/A | N/A | NONE | N/A

REMARKS: MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | MASONMIX INC.

LIMEY CARSON LIME | N/A | NONE

REMARKS: BATCHED ½ CU. FT. LIME | NONE

FQC Site Lab | Shoreham N.Y. | 3-6-79

Good | 3/12/79, 4-2-79 | 6, 27

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% COARSE AGGREGATE BROKEN THROUGH
MC 641 A	2x2	3-12-79	7600	N/A	7	3	N/A
B	2x2	3-12-79	7600		7	3	
C	2x2	3-12-79	7300		7	3	
D	2x2	4-2-79	10,300		28	3	
E	2x2	4-2-79	10,260		28	2	
F	2x2	4-2-79	10,200		28	3	

1833 PSI AT 7 DAYS | 2563 PSI AT 28 DAYS

MSTE 2-22-02

[illegible] (signature)

3/12/79, 4-2-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 — PROJECT LOCATION: SHORCHAM N.Y. — J.O. NO.: 11600.56

SPECIMEN MADE OF: MORTAR — EARTH SHARP — SPECIMEN TAKEN BY: H. CALABRO — DELIVERY: MC 540-A-F — LOCATION: REACTOR

DATE SAMPLED: 3-2-79 — TIME: 10 15 — N/A — AIR TEMP: 60

N/A — N/A — N/A

3 — N/A — AT POINT OF PLACEMENT

N/A — N/A - N/A — BY BURLAP — 1 DAY

N/A — 100°F MIN × 28 DAYS BY CONTRACTOR

LOCATION IN STRUCTURE: SOLID HI DENSITY WALL IN SLAB 40', NORTH WEST & SOUTH OF HEAT EXCHANGER AT AZIM. 270°. SAMPLED AT EL 43

45 — N/A — — — N/A — N/A — N/A

— —

2 — N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — — — POZZOLITH INC.

GOWH. CORSON LIME — N/A — — — NONE

REMARKS: BATCHED 1/2 CU. FT. LIME — NONE

FQC Site Lab Shoreham, NY — 3/3/79

Good — 3-9-79, 3-30-79 — 6, 27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	%
MC-640 A	2x2	3-9-79	9,100	N/A	7	3	N/A
B		3-9-79	8,700		7	3	
C		3-9-79	8,200		7	3	
D	2x2	3-30-79	14,100		28	3	
E	2x2	3-30-79	15,200		28	3	
F	2x2	3-30-79	14,700		28	3	

2225 — 7 — 3667 — 28

MATE #2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 — Shoreham N.Y. — 11600.50

Mortar — South Shore Masonry — A. Thompson — MC 538 A-F — Reactor

3-1-79 — 9:45 — N/A — 62 — Mortar 62

N/A — N/A — N/A — N/A

N/A — At point of placement

N/A — N/A — N/A — Wet burlap — 1 DAY

N/A — 180° — 28 — By Contractor

Sled Hi Density Wall North West & South of Reactor At Azimuth 270° Sample At EL 42.

85 ??? — N/A — — — N/A — N/A — N/A

1 — N/A — N/A — N/A — None — N/A

Mortar Batched By Volume — None — None

Lone Star — II — — — Nassau Mix Inc.

Lime: Conn. Carbona — N/A — — — None

Batched 1/2 cu. ft. Lime — None

FQC Site Lab — Shoreham N.Y. — 2-9-79

Good — 3-8-79, 3-29-79 — 6, 27

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC 538 A		3-8-79	8,300	N/A	7	3	N/A
B	2x2	3-8-79	9,000		7	3	
C		3-8-79	8,700		7	3	
D	2x2	3-29-79	11,500		28	3	
E	2x2	3-29-79	15,400		28	3	
F	2x2	3-29-79	14,300		28	3	

2267 — 7 — 2525 — 28

MATE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: SHOREHAM N.Y.	JOB ORDER: 11600.50
MORTAR / SOUTH SHORE MASONS	A. THOMPSON	MC 536 A-F / LOCATION SAMPLE: REACTOR
DATE SAMPLED: 2-27-79	8 AM	N/A / 59 / MORTAR 61
READY MIXED CONCRETE: N/A	N/A	TRUCK CAPACITY: N/A / N/A
N/A	N/A	AT POINT OF PLACEMENT / 1 DAY
METHOD: N/A	N/A - N/A	
N/A	28 DAYS	BY CONTRACTOR

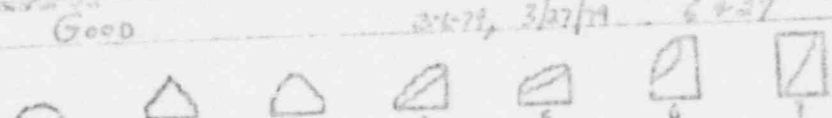
LOCATION OF PLACEMENT: SHIELD WALL ~~/~~ THREE SEPARATOR TANK FROM EL 126' TO 175' SAMPLED AT EL 108

9.5 CU FT	N/A		N/A	N/A	N/A
N/A	N/A	N/A	NONE		N/A
MORTAR BATCHED BY VOLUME			NONE		NONE
LONE STAR	II	—		POZZOLITH INC.	
CONN. CARSON LIME	N/A	—	NONE		
BATCHED ½ CU. FT. LIME			NONE		

TESTING AGENCY: F.D.C. SITE LAB. SHOREHAM, N.Y. — DATE RECEIVED: 2-28-79

GOOD — 3-6-79, 3/27/79 — 6 & 27

TYPE OF BREAK



1 2 3 4 5 6 7

No.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC536 A	2" x 2"	3-6-79	10,150 / 9950	N/A	7	3	N/A
B		3-6-79	9,880		7	3	
C		3-27-79	17,100		28	3	
D							
E	↓	3-27-79	16,400	↓	28	3	↓
F	↓	3-27-79	17,200		28	3	

2342 — 7 DAYS — 4217 — 28 DAYS

REMARKS: NYTC # 2-22-2

3-6-79 — 3/27/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH SET OF SPECIMENS SENT TO THE LABORATORY

PROJECT: SNPS-1 | Shoreham N.Y. | 11600.56

Mortar | Sixth Shift | A. Thompson | MC 335 A-F | Reactor Bldg

Date sampled: 2-26-79 | 9 | N/A | 61 | 68 Mortar

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | Wet burlap | 1 Day

N/A | 1100 psi at 28 days By Contractor

Location of concrete placement: 2' Solid Hi Density Wall From 19' to 26' W/O ℄ Rx from 60' N/O ℄ Stair From El 139 Sampled At El 131'

4.5 | N/A | — | N/A | N/A | N/A

— | — | —

4 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

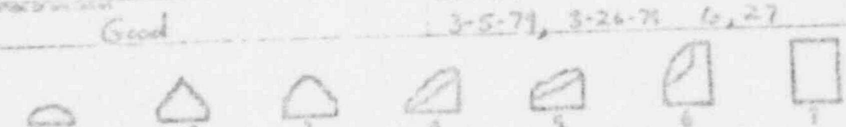
Lone Star | II | — | Atlantic Inc.

John Carson Lime | N/A | — | None

Batched ½ cu. ft. Lime | None

FOC Site Lab | Shoreham New York | 2/27/79

Good | 3-5-79, 3-26-79 | 6, 27



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	%
MC 335 A / B	2×2	3-5-79	6500 / 6500	N/A	7	3 / 3	N/A
C / D	2×2 / 2×2	3-5-79 / 3-26-79	6100 / 11,300		7 / 28	3 / 2	
E	2×2	3-26-79	11,100		28	3	
F	2×2	3-26-79	11,700		28	3	

1550 | 7 | 2817 | 28

MCTE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | JOB ORDER: 11600.56

South Shore Ready Mix Inc. | A. THOMPSON | MC 534 A-F | REACTOR

DATE: 2-23-79 | HOUR: 8-30 | N/A | 27

N/A | N/A | N/A | N/A

3 | N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | 1 DAY

N/A | 1000 PSI AT 28 DAYS | BY CONTRACTOR

LOCATION OF STRUCTURE PLACEMENT: 2' SECT. HI DENSITY BLOCK WALL ON EL 150 CLOSING THE PIPE CHASE AT AZIM. 85° SHIELD EL 150.

4.5 | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

Lone Star | II | — | Ronnite Inc.

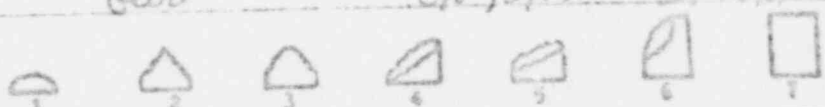
Town Corson | N/A | — | None

Batched ½ cu. ft. Lime | None

FQC Site Lab | Shoreham NY | 2-24

Good | 2/2, 3/23 | 3/2, 3/23

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
6 A / B	2x2	3-2-79	7000 / 8000	N/A	7 days	3 / 3	N/A
C / D	2x2 / 2x2	3-2-79 / 3-23-79	7000 / 10,400	↓	7 / 28 days	3 / 3	↓
E	2x2	3-23-79	11,000	↓	28 days	3	↓
F	2x2	3-23-79	12,300	↓	28 days	3	↓

1863 | 7 days | 3017 | 28

NOTE 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STO[illegible]E & WEBSTER ENGINEERING CORPORATION

PROJECT: SNPS-1 — Shoreham N.Y. — 11600.56

Sampled from: Mortar Batch Mixer (Speed Mixer); Sampled by: A. Thompson; MC 535 A-F; Reactor

Date sampled: 2-22-79 — 1:30 PM — N/A — 70 — 70

N/A — N/A — N/A — N/A

3 — N/A — At point of placement

N/A — N/A — N/A — Wet Burlap — 1 DAY

N/A — 125° ... 20 ... By Contractor

LOCATION IN BUILDING: Solid Hi Density Removable Block Wall 4/o Press. Sup. Tank Sampled At EL 136

8.5 — N/A — N/A — N/A — N/A

1 — N/A — N/A — N/A — None — N/A

REMARKS: Mortar Batched By Volume — None — None

Lone Star — II — — — Master Builders Inc. (?)

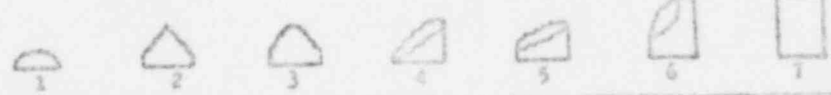
Lime: Conn. Carson — N/A — — — None

Batched ½ cu. ft. Lime — None

TESTING LABORATORY: FRC Site Lab Shoreham N.Y. — 2/23/79

Condition: Good — 3/1/79, 3/22/79 — 6, 27

TYPE OF BREAK



1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% [illegible]
MC535A			4150		7	3	
B	2x2	3-1-79	8600	N/A	7	3	N/A
C	2x2	3-1-79	9500	N/A	7	3	
D	2x2	3-22-79	16,300		28	3	
E	2x2	3-22-79	15,300		28	3	
F	2x2	3-22-79	15,500		28	3	

2258 ... 7 ... 3792

MATE 2-22-82 [illegible]

3/1/79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND SLIP ATTACHED EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | SPECIMEN NOS.: MC526 A-F | LOCATION SAMPLED: REACTOR

DATE SAMPLED: 2-13-79 | 2:30 PM | N/A | 12 | 20

N/A | N/A | TRUCK CAPACITY: N/A | N/A

N/A | AT POINT OF PLACEMENT

N/A | N/A | N/A | N/A | CURED AT JOB: FIELD BURLAP | 1 DAY

N/A | 28 DAYS BY CONTRACTOR

LOCATION OF SPECIMEN IN STRUCTURE: REACTOR - SAMPLE @ EL 118

WALL OPENING ON 112'9" SLAB DURING CT (?) AREA (?) 350°

9.5 | N/A | N/A | N/A | N/A

— | —

9 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | ... AIR INC.

CUNH. CARBON LIME | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

TESTING LABORATORY: F.Q.C. SITE LAB SHOREHAM, N.Y. | DATE RECEIVED: 2-14-79

CONDITION: GOOD | 2-20-79, 3-13-79 | 6-27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	%
MC-526 A	2" x 2"	2-20-79	6000	N/A	7 DAYS	2	N/A
			6200			2	
		2-20-79	6150		7	2	
D	↓	3-13-79	12,600	↓	28 DAYS	2	↓
E	↓	3-13-79	10,200	↓	28 DAYS	3	↓
F	↓	3-13-79	14000	↓	28 DAYS	3	↓

1529 LBS PER SQ INCH AT 7 DAYS | 3083 LBS PER SQ INCH AT 28 DAYS

M&TE #: 2-22-2

[illegible signature]

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

PROJECT: SNPS-1 | LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

SOURCE: MORTAR, SOUTH SHOP | MADE BY: A. THOMPSON | DRAWINGS: MC 525 A-F | REQUIRED

DATE: 2-13-79 | HOUR: 11 | N/A | 61 | MORTAR

N/A | N/A | N/A | N/A

N/A | 1 DAY

N/A | N/A - N/A

N/A | 28 | BY CONTRACTOR

LOCATION IN STRUCTURE: CLOSE WALL OPENING ON SCREEN WELL LINE CT AZ 260' | SOUTH WALL

4.5 | N/A | N/A | N/A | N/A

1 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | PERMAFIRE INC.

CONN. CORSON | N/A | NONE

BATCHED 1/2 CU. FT. LIME | NONE

E.S.C. SITE LAB. | SHOREHAM, N.Y. | 2-13-79

GOOD | 2-19-79, 3-12-79 | 6, 27

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-525-A	2x2	2-19-79	5260 / 5300	N/A	7 / 7	2 / 2	N/A
MC-525-B	2"x2"	2-19-79 / 3-12-79	6600 / 10,100	N/A	7 / 28	2 / 3	N/A
MC525E	2"x2"	3-12-79	11,900	N/A	28	3	N/A
MC525F	2"x2"	3-12-79	10700	N/A	28	3	N/A

1729 | 7 | 2725 | 28

NCR 82-22-02

2-19-79 | 3-12-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | Shoreham N.Y. | J.O. No. 11600.56

MORTAR | South Shore Mason | A. Thompson | MC 523 A-F | Reactor

2-8-79 | 9:30 AM | N/A | 11 | Mortar

N/A | N/A | N/A | N/A

N/A | N/A | Wet Burlap | 1 Day

N/A | N/A – N/A

N/A | 12-28 By Contractor

LOCATION OF SAMPLING: Sample taken at El 112'-9"

2" Hi Density Well Cover Opening on S. Line Azim. Az 250°

4.5 | N/A | N/A | N/A | N/A

2 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

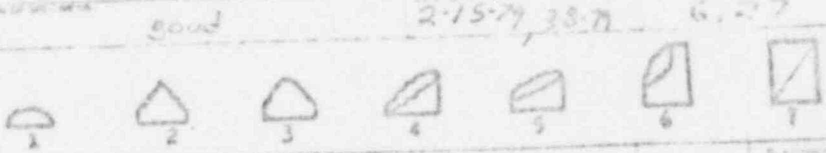
Lone Star | II | — | Nixon Mix Inc.

Sand Corson | N/A | — | None

Batched ½ cu. ft. Lime | None

FOC Site Lab | Shoreham NY | 2-9-79

good | 2-15-79, 3-8-79 | 6.27



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC523 A	2×2	2-15-79	14,200	NA	7	2	NA
MC523 B	2×2	3-8-79	13,750	NA	28	3	NA
MC523 E	2×2	3-8-79	13,800	NA	28	3	NA
MC523 F	2×2"	3-8-79	13,750	NA	28	3	NA

1821 | 7 | 3350

MTE
2-22-2

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

SHOREHAM N.Y.

11600.56

A. THOMPSON

MC 522 A-F

REACTOR BLDG.

2-6-79

12 28

N/A

62

N/A

N/A

N/A

N/A

N/A

1 DAY

N/A

N/A N/A

BY CONTRACTOR

N/A

SAMPLE TAKEN AT APPROX EL 129'

1½" SOLID HI DENS REPOSITORY WALL @ SHAKE SPACE 125'0" SLAB

45 28 N/A N/A N/A N/A

N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR II ...TONAIR INC.

SOUTH CARSON N/A NONE

BATCHED ½ CU. FT. LIME NONE

PDC Site Lab Shoreham N.Y. 2-7-79

Good 2-13-79, 3-6-79 6, 27

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC522A	2x2	2-13-79	9200 / 9530	NA	7	2	NA
MC522C	2x2	3-6-79	17200 / 14,800	NA	28	3	NA
MC522E	2x2	3-6-79	15,600	NA	28	2	NA
MC522F	2x2	3-6-79	12,000	NA	28	2	NA

3304 7 4050 28

MHE - 2-22-2

2-13-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.56

MORTAR | SOUTH SHORE MASONRY | P. THOMPSON | MC 510 | A-E | SEASPOR

DATE SAMPLED: 12-18-78 | TIME: 10:20 AM | N/A | 59

N/A | N/A | N/A | N/A

N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 180° ... 28 ... | BY CONTRACTOR

LOCATION OF SPECIMEN: ELEVATOR SHAFT AT EL 175

4.5 CU FT | N/A | N/A | N/A | N/A

2 | N/A | N/A | N/A | NONE | N/A

MIXED AT EL 112

MORTAR BATCHED BY VOLUME | NONE | NONE

LONG STAR | II | — | MASON MIX INC

G&WH CORSON LIME | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

FQC Site Lab Shoreham, NY | 12-21-78

Good | 12-25-78 & 1-15-79 | 6 27

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC509 A / B	2x2	12-25-78	10,650 / 11,000	NA	7	2	NA
MC510 C / D	2x2	12-25-78 / 1-15-79	11,550 / 16,000	NA	7 / 28	2	NA
MC510 E	2x2	1-15-79	16,350	NA	28	2	NA
MC510 F	2x2	1-15-79	15,200	NA	28	2	NA

2684 | 3963 | 28

MTF 2.222

Mark Pan | Mark Pan

12-25-78 | 1-15-79

LOCATION OF POUR: NOTE: RESULTS ... AT 7 DAYS

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | Shoreham N.Y. | 11600.50

MORTAR | South Shaft | A. Thompson | MC 508 A-F | Reactor

12-17-78 | 9 | N/A | 62 | Mortar

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | Wet Burlap | 1 DAY

N/A | 1880 | 28 | By Contractor

Elevator Shaft At El 156

45 CU FT | N/A | — | N/A | N/A | N/A

N/A | N/A | N/A | None | N/A

Mixed On El 112.

Mortar Batched By Volume | None | None

Lone Star | II | — | Mason Mix Inc.

Lime: Genh Corson | N/A | — | None

Batched 1/2 cu. ft. Lime | None

PQC Site Lab | Shoreham, N.Y. | 12-18-78

good | 12-24-78, 1-14-79 | 6, 27

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC508 A, B	2x2	12-24-78, 12-24-78	10,900, 8,400	N/A	7, 7	2, 2	N/A
MC508 C, D	2x2	1-14-79	15,000	N/A	28	3	N/A
MC508 E	2x2	1-14-79	16,600	N/A	28	3	N/A
MC508 F	2x2	1-14-79	15,200	N/A	28	3	N/A

2425 | 3700 | 28

MTE 2-222

Mal Perri Mal Perri

12-24-78 1-1?-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | Shoreham N.Y. | 11600.50

MORTAR | Sixth Shore Masonry | H. Calabro | MC 506 A-F | Reactor

12-16-78 | 10 | N/A | 61 | Mortar

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | Wet Burlap | 1 Day

N/A | 189° | 28 | By Contractor

ELEVATOR SHAFT At EL 188.0'

45 CU FT | N/A | N/A | N/A | N/A

2 | N/A | N/A | N/A | NONE | N/A

MORTAR MIXED AT EL 112.

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON AIR INC.

LIME | SAWH LARSON | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

YOC Site Lab | Shoreham N.Y. | 12-17-78

Good | 12-23-78 1-13-79 | 6.27

TYPE OF BREAK: 1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 506 A B	2"x2"	12-23-78	9700 / 9750	NA	7	2	NA
MC 506 C D	2"x2"	1-13-79	10200 / 15300	NA	28	2	NA
MC 506 E	2"x2"	1-13-79	14700	NA	28	2	NA
MC 506 F	2"x2"	1-13-79	15400	NA	28	2	NA

2488 | 7 | 3783 | 28

MTE 2.22.2

Mark Pierce Mark Pierce

12-23-78 1-13-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1	PROJECT LOCATION: Shoreham N.Y.	J.O. ORDER: 11600.51

Specimen made by: MORTAR — South Shore Masonry

Specimens taken by: R. Thompson

MC 505 A-F Reactor

Date sampled: 12-15-78 — 9:30 — N/A — 59 — N/A

N/A — N/A — N/A

3 — N/A

At point of placement

N/A — N/A — N/A — Wet Burlap — 1 Day

N/A — 1800 — 28 — By Contractor

Location of placement: Elevator Shaft At EL 119 0'

45 90/ft — N/A — — — N/A — N/A — N/A

2 — N/A — N/A — N/A — None — N/A

Mortar Batched On EL 117

Mortar Batched By Volume — None — None

Long Star — II — — — Mason Mix Inc.

Lime: Genn Corson — N/A — — — None

Batched ½ cu. ft. Lime — None

FQC Site Lab — Shoreham, NY — 12-16-78

Good — 12-22-78, 1-12-79 — 6, 27

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	%	
MC505 A, B	2×2	12-22-78	10000 / 7050	NA	7	2	NA	
MC505 C, D	2×2	1-12-79	16,900	NA	28	2	NA	
MC505 E	2×2	1-12-79	15400	NA	28	2	NA	
MC505 F	2×2	1-12-79	16,350	NA	28	2	NA	

2171 — 7 — 4046 — 28

Remarks: MTC 2-22-2

MacPhee MacPhee

12-22-78 1-12-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

PROJECT: SNPS-1 — Shoreham N.Y — 11600 50

Mortar — South Shore Masonry — A. Thompson — MC 504 A-F Reactor

Date: 12/14/78 — 1 PM — N/A — 65 — Mortar

N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — Wet Burlap 1 Day

N/A — 180° — 28 — By Contractor

Location of sampling: Elevator Shaft At El 112

4.5 — N/A — N/A — N/A — N/A

4 — N/A — N/A — N/A — None — N/A

Mortar Batched By Volume — None — None

Long Star — II — Mason Mix Inc.

Gowh Carson Lime — N/A — None

Mortar Mixed At El 112.

Batched 1/2 cu. ft. Lime — None

FCC Site Lab — Shoreham NY — 12-15-78

Good — 12-21-78 1-11-79 — 6 27

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
MC 504 A B	2"x2"	12-21-78	8500 8500	NA	7	3 3	NA
MC 504 C D	2x2	12-21-78 1-11-79	8550 13,900	NA	7 28	3 2	NA
MC 504 E	2x2"	1-11-79	13,750	NA	28	2	NA
MC 504 F	2x2"	1-11-79	13350	NA	28	2	NA

2129 — 7 — 3375 6000 — 28

MTE 2-22-2

[illegible signature]

12-21-78 1-11-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 — SHOREHAM N.Y. — 11600.50

MORTAR — A. THOMPSON — MC 503 A-F REACTOR

12/13/78 — 10 — N/A — 67 — N/A

N/A — N/A — N/A — N/A

3 — N/A — 1 DAY

N/A — N/A — N/A — NON-OVERLAP

N/A — 18 — 28 — BY CONTRACTOR

ELEVATOR SHAFT AT EL 90'

45 CU FT — N/A — N/A — N/A — N/A

N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — MASON MIX INC.

GENW. CARSON — LIME — N/A — NON.

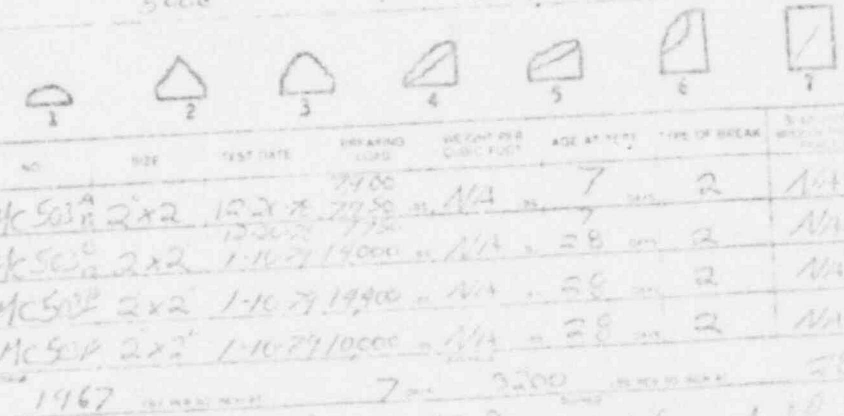
MORTAR WAS MIXED AT EL 112

BATCHED ½ CU. FT. LIME — NONE

FQC Site Lab — Shoreham NY — 12-14-78

Good — 12-20-78 1-10-79 — 6 — 27

TYPE OF BREAK



NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC 503 A B	2x2	12-20-78 12-20-78	2400 2250 775	NA	7 7	2	NA
MC 503 C E	2x2	1-10-79	14000	NA	28	2	NA
MC 503 D	2x2	1-10-79	14400	NA	28	2	NA
MC 503 F	2x2	1-10-79	10000	NA	28	2	NA

1967 — 7 — 3200 — 28

MTE 2-22-2

[illegible signature]

12-20-78

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 502 A-F | REACTOR

12-12-78 | 11 | N/A | 60 | MORTAR 60

N/A | N/A | N/A | N/A

N/A

N/A | N/A - N/A | WET BURLAP | 1 DAY

N/A | 188° | 28 | BY CONTRACTOR

ELEVATOR SHAFT - EL 85

4.5 CU FT | N/A | N/A | N/A | N/A

— | — | —

2 | N/A | N/A | N/A | NONE | N/A

MIXED INSIDE ON EL 112

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASONMIX INC.

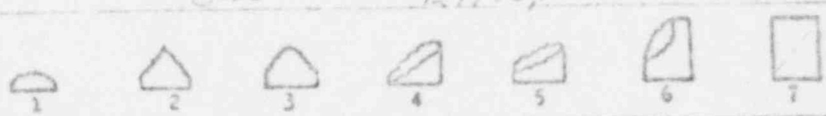
GYWH CARSON (LIME) | N/A | — | NONE

BATCHED 1/2 CU. FT LIME | NONE

FGC Site Lab | Shoreham N.Y. | 12-13-78

good | 12-19-78, 1-9-79 | 6 | 27 DAYS

TYPE OF BREAK



1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% ...
MC 502 A	2x2	12-19-78	9900 9450	NA	7	2	NA
MC 502 C D	2x2	12-19-78 1-9-79	9000 15650	NA	28	2	NA
MC 502 E	2x2	1-9-79	16,450	NA	28	2	NA
MC 502 F	2x2	1-9-79	16,250	NA	28	2	NA

2471 | 7 | 4030 | 28

MTS

2-22-2

M. A. Rosa Mark Rosa

12-19-78

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETED AND FILLED IN FOR EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 — SHOREHAM N.Y. — 11600.50

MORTAR — South Shore Masonry — A. THOMPSON — MC 501 A-F REACTOR — MORTAR

12-8-78 — 11 30 — CLEAR — 50

N/A — N/A — N/A — N/A

N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 28 — BY CONTRACTOR

LOCATION OF SPECIMEN POUR

ELEVATOR SHAFT - APPROX EL. 75

4.5 CU FT — N/A — N/A — N/A — N/A

N/A — N/A — N/A — NONE — N/A

MORTAR BATCHED BY VOLUME — NONE — NONE

LONE STAR — II — MASON MIX INC.

GEWH CORSON LIME — N/A — NONE

BATCHED ½ CU. FT. LIME — NONE

FQC Site Lab — Shoreham N.Y. — 12-4-78

good — 12-15-78 1-5-79 — 6,27

TYPE OF BREAK

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE
MC501 A, B, C	2x2	12-15-78	8800, 9050, 8700	NA	7	2	NA
MC501 D	2x2	1-5-79	13950	NA	28	2	NA
MC501 E	2x2	1-5-79	15250	NA	28	2	NA
MC501 F	2x2	1-5-79	14750	NA	28	2	NA

2213 — 7 — 3663 — 2

MTE 2-22-2 — M. Antonio — [illegible]

12-15-78 — 1-5-[illegible]

LOCATION OF POUR: Elevator Shaft Approx EL 75

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SAMPLING

PROJECT: SNPS-1
LOCATION: SHOREHAM N.Y.
J.O. NO.: 11600.50

MORTAR — TOOTH SHARP MASONRY — A. THOMPSON — MC 499 A-F — REACTOR

DATE SAMPLED: 12-7-78 — 11 00 — CLEAR — 60 — 60

READY MIXED CONCRETE: N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 180° — 28 — BY CONTRACTOR

LOCATION OF PLACEMENT: ELEVATOR SHAFT APPROX EL 35

MIX

4.5 CU FT — N/A — — — N/A — N/A — N/A

— — —

1 — N/A — N/A — N/A — NONE — N/A

REMARKS: MORTAR BATCHED BY VOLUME — NONE — NONE

MATERIALS

LONE STAR — II — — — MASON MIX INC.

GENH. CORSON LIME — N/A — — — NONE

REMARKS: BATCHED ½ CU. FT. LIME — NONE

TESTS

PGC Site Lab — Shoreham N.Y. — 12-8-78

Condition of specimens: Good — 12-19-78, 1-4-79 — 6, 27

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 499 A B	2"x2"	12-14-78	8050 7900	NA	7	2	NA
MC 499 C D	2"x2"	12-14-78 1-4-79	7550 12,650	NA	7 28	2	NA
MC 499 E	2"x2"	1-4-79	9100	NA	28	2	NA
MC 499 F	2"x2"	1-4-79	10,100	NA	28	2	NA

1959 — 7 — 2988 — 28

REMARKS: MTE 2-22-2

SIGNED: Mark Parisi — Mark Parisi

DATE: 1-12-78 — 1-8-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | Shoreham N.Y. | 11600.56

MORTAR | South Grout Mixer | A. Thompson | MC 498 A-G | Starter

12-4-78 | 9 AM | Clear | 57 °F

N/A | N/A | N/A | N/A

3 | N/A | At point of placement

N/A | N/A | N/A | Wet Burlap | 1 DAY

N/A | 138° | 28 | By Contractor

Elevator Shaft - Approx EL 46'

45 | N/A | — | N/A | N/A | N/A

3 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

Long Star | II | — | Mason Mix Inc

Lime: Gywn. Corson | N/A | — | None

Batched ½ cu. ft. Lime | None

FQC Site Lab | Shoreham NY | 12-5-78

good | 12-11-78, 1-1-79 | 6, 27

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
MC 498 A B	2"x2"	12-11-78	10,400 9700	NA	7	2	NA
MC 498 C D	2"x2"	12-11-78 1-1-79	10,400 16,300	NA	28	7	NA
MC 498 E	2"x2"	1-1-79	16,800	NA	28	3	NA
MC 498 F	2"x2"	1-1-79	16,900	NA	28	3	NA

AVERAGE 2543 | AVERAGE 3854

REMARKS: NTE 2222 | [illegible]

DATE 12-11-78 1-1-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | Shoreham N.Y. | 11600.56

Mortar | Earth Shaft (?) | M. Pavia | MC 497A-C | Reactor

12-3-78 | 10 20 | Clear | 60 | 60

N/A | N/A | N/A | N/A

N/A

N/A | N/A | N/A | Wet Burlap | 1 Day

N/A | 1800 ... 28 days | By Contractor

Elevator Shaft Approx. El. 11

4.5 | N/A | — | N/A | N/A | N/A

1 | N/A | N/A | N/A | None | N/A

Mortar Batched By Volume | None | None

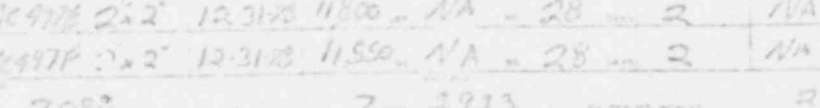
Lone Star | II | — | Mason Mix Inc.

Lime: Conn. Carson | N/A | — | None

Batched ½ cu. ft. Lime | None

FQC Site Lab | Shoreham N.Y. | 12-4-78

Good | 12-10-78, 12-31-78 | 6, 27



1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC497A	2x2"	12-10-78	8400 8350	N/A	7	2	N/A
MC497B	2x2"	12-10-78 12-31-78	8300 11,700	N/A	7 28	2	N/A
MC497C	2x2"	12-31-78	11800	N/A	28	2	N/A
MC497D	2x2"	12-31-78	11,550	N/A	28	2	N/A

2080 ... 7 days 2913 ... 28 days

MTE 2-222

M. Pavia M. Pavia

12-31-78

Mortar Cubes Rec. Mortar Cubes Rec.

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | Shoreham N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONRY | J. CRAFFEY | MC 496 A-F | REACTOR

12-2-78 | 10 | CLEAR | 58 | 60

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 180 | 28 | BY CONTRACTOR

ELEVATOR SHAFT - APPROACH LL'

45 | N/A | — | N/A | N/A | N/A

2 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASON MIX INC.

GWINN CORSON LIME | N/A | — | NONE

BATCHED ½ CU. FT. LIME | NONE

YGC site lab | Shoreham, NY | 12-3-78

good | 12-9-78, 12-30-78 | 6, 27

TYPE OF BREAK: 1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC496 A B	2x2	12-9-78	9500 9000	NA	7	2	NA
MC496 C D	2x2	12-9-78 12-30-78	8050 12250	NA	7 28	2	NA
MC496 E	2x2	12-30-78	11500	NA	28	2	NA
MC496 F	2x2	12-30-78	10150	NA	28	2	NA

2213 | 7 | 2825 | 28

ATK 2-22-2 Madalena Madalena

12-9-78 12-30-78

LOCATION OF POUR: Elevator Shaft ...

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 SHOREHAM N.Y 11600 SC

MORTAR South Shore Masonry A. THOMPSON MC 353 A.F Diesel Gen 68 Mortar

9-15-77 1st CLEAR

N/A N/A N/A

3 N/A

N/A N/A N/A Wet Burlap 1 DAY

N/A 180° 28 By CONTRACTOR CL 75 0'

OVER DOOR OPENING IN WALL APPROX 21' S/O C LINE

45 N/A N/A N/A N/A

1 N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR II Mason Mix Inc.

GENH CARSON LIME N/A NONE

BATCHED 1/2 CU. FT LIME NONE

S&W QC LAB SHOREHAM N.Y 9-15-77

9-22 & 10-13 X-7-28

GOOD

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
353 A	2x2	9-22	6500	N/A	7	4	N/A
353 B	2x2	9-22	6500		7	2	
353 C	2x2	9-22	4450		7	2	
353 D	2x2	10-13	11,300		28		
353 E	2x2	10-13	12,250		28	3	
353 F	2x2	10-13	11,500		28	2	

1021 7 2904 28

E. ACCIMELLO

RW Ramondi Jr

Rev 10-477

10/10/77

MTR 2-20-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONS | A. THOMPSON | MC 352 A-F | DIESEL GEN

9-14-77 | 9:00 AM | CLEAR | 74 | MORTAR 72

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 189° | 28 | BY CONTRACTOR

WALL APPROX 26 1/2 LINE C SAMPLE AT LINE 13 7/8 EL 70.0

45 FT — N/A — N/A N/A N/A

1 N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR II — MASON MIX INC.

CONN. CORSON LIME N/A — NONE

BATCHED 1/2 CU. FT. LIME NONE

S+W QC LAB | SHOREHAM N.Y. | 9-14-77

GOOD | 9-21 + 10-12 | 7 + 28

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
352 A	2 x 2	9-21	5600		7	3	
352 B	2 x 2	9-21	7250		7	3	
352 C	2 x 2	9-21	6750		7	1	
352 D	2 x 2	10-12	10,900		28	3	
352 E	2 x 2	10-12	11,200		28	2	
352 F	2 x 2	10-12	10,800		28	3	

1650 | 7 | 2725 | 28

A. Cabrera

[illegible] for

9/21/77

10/13/77

MTC - 2002-12

REPORT OF COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y | 11650.50

MORTAR | SOUTH SHORE MASONRY | A THOMPSON | MC 350 A-F | DIESEL GEN

9-8-77 | 9 30 | CLEAR | 69 | MORTAR EL

N/A | N/A | N/A | N/A

N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 180° | 28 | BY CONTRACTOR

EMERG. SWGR - SOUTH WALL OVER DOOR EL 55'

45 | N/A | — | N/A | N/A | N/A

— | — | —

3 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASONMIX INC.

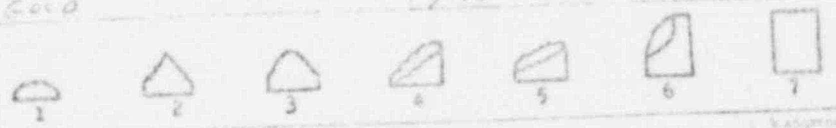
PENN CORSON LIME | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

SWEC QC LAB | SHOREHAM N.Y | 9-8-77

GOOD | 9-15 + 10-6 | 7 + 28

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAK LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
350 A	2x2	9-15	70[illegible]		7	2	
350 B	2x2	9-15	7250		7	2	
350 C	2x2	9-15	5900	N/A	7	3	N/A
350 D	2x2	10-6	10,050		28	2	
350 E	2x2	10-6	11900		28	2	
350 F	2x2	10-6	11,800		28	2	

1759 | 7 | 2813 | 28

[illegible signatures]

9-15-77

10-6-77

2-22-08

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONRY | A. THOMPSON | MC 349A-F | DIESEL GEN

9-7-77 | 9 AM | CLEAR | 68 | MORTAR 68

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WITHDRAWN 1 DAY

N/A | 1800 PSI AT 28 DAYS | BY CONTRACTOR

LOCATION OF SPECIMEN IN STRUCTURE:
SOUTH WALL OF EMERG SWGR E/S DOOR EL 50'

4.5 CU FT | N/A | — | N/A | N/A | N/A

— | — | —

1 | N/A | N/A | N/A | NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

LONE STAR | II | — | MASONMIX INC.

GENH CORSON LIME | N/A | — | NONE

BATCHED 1/2 CU. FT. LIME | NONE

S&W QC LAB | SHOREHAM N.Y. | 9-7-77

GOOD | 9-14 & 10-5 | 7 & 28

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
349A	2x2	9-14	6600#	N/A	7	3	N/A
349B	2x2	9-14	6500		7	3	
349C	2x2	9-14	6410		7	3	
349D	2x2	10-5	12,550		28	2	
349E	2x2	10-5	12,250		28	2	
349F	2x2	10-5	12,000		28	2	

1629 | 7 | 3100 | 28

REMARKS:
NTE 2-22-02

[illegible signature]

[illegible signature] FOR TESTING LAB

9-14-77
& 10-5-77

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 SHOREHAM N.Y. 11600.50

MORTAR SOUTH SHORE MASONRY A. THOMPSON MC 348 A-F DIESEL GEN. MORTAR

9-6-77 9 15 CLOUDY 70 72

N/A N/A N/A N/A

3 N/A WET BURLAP 1 DAY

N/A N/A N/A

N/A 18 HRS 28 BY CONTRACTOR

SOUTHEAST CORNER OF EMERGENCY SWGR EL 49.0'

45 N/A N/A N/A N/A

2 N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR II MASON MIX INC.

GENL CORP'N LIME N/A NONE

BATCHED ½ CU. FT. LIME NONE

S&W FIELD LAB SHOREHAM NY 9-6-77

GOOD 9-13 & 10-4 7 & 28

TYPE OF BREAK: 1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC 348A	2x2	9-13	4400	N	7	2	N
348B	2x2	9-13	4250		7	2	
348C	2x2	9-13	7000		7	2	
348D	2x2	10-4	10150	A	28	2	A
348E	2x2	10-4	10700		28	2	
348F	2x2	10-4	10400		28	2	

1438 7 2604 28

S. Mancuso

S. Mancuso

9-13-77

10-4-77

FOTS 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 SHOREHAM N Y 11600.50

MORTAR South Shore Masons A. THOMPSON MC 347 A-F D 6

9-2-77 10 30 CLEAR 78 MORTAR 75

N/A N/A N/A N/A

3 N/A 1 DAY

N/A N/A N/A Wet Burlap

N/A 180° 28 By CONTRACTOR

EastWall Of Relay Emerg SWGR EL 40'

4.5 N/A — N/A N/A N/A

2 N/A N/A N/A NONE N/A

MORTAR BATCHED By VOLUME — NONE NONE

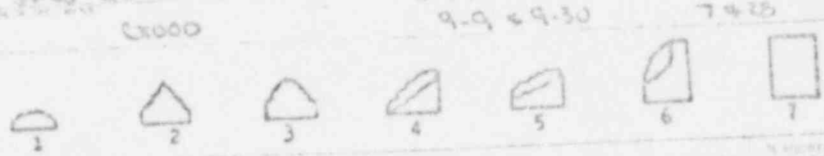
LONE STAR II — Mason Mix Inc.

Lime Ashh Carson N/A — NONE

Batched ½ cu. ft. Lime NONE

S&W QC LAB SHOREHAM NY 9-2-77

6000 9-9 & 9-30 7 & 28



NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
347A	2x2	9-9	5900	N	7	2	N
347B	2x2	9-9	5500		7	2	
347C	2x2	9-9	6050		7	2	
347D	2x2	9-30	9700	A	28	2	A
347E	2x2	9-30	9950		28	2	
347F	2x2	9-30	9600		28	2	

1442 7 2438 28

S. Mancuso

S. Mancuso

9.9.77

9-30-77

AUG 2.22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

SHOREHAM N.Y.

11600.50

MORTAR

A THOMPSON

MC 315 A-F

DIESEL GEN. BLDG.

70

6-16-77

85

CLEAR

N/A

N/A

N/A

N/A

3

N/A

WET BURLAP 1 DAY

N/A

N/A M1

28 DAYS BY CONTRACTOR

N/A

W-WALL OF 12 LINE CORRIDOR SAMPLED AT 21ST COURSE 17'3" C LINE

4.5 CU FT

N/A

N/A

N/A

N/A

NONE

N/A

N/A

N/A

N/A

NONE

NONE

MORTAR BATCHED BY VOLUME

MASON MIX INC.

LONE STAR

II

NONE

G + W H. CORSON LIME

N/A

NONE

BATCHED 1/2 CU. FT. LIME

SEW QC LAB

SHOREHAM N.Y.

6-16-77

6-23 - 7-14

7-28

GOOD

TYPE OF BREAK

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	STRENGTH
318 A	2x2	6-23	7,200	N/A	7	3	N/A
318 B	2x2	6-23	7,050		7	2	
318 C	2x2	6-23	7,350		7	3	
318 D	2x2	7-14	14,900		28	3	
318 E	2x2	7-14	14,450		28	3	
318 F	2x2	7-14	11,350		28	3	

1800

7

2684

28

J. Mostert

J. Mostert

MTE 2-22-02

6-23-77

7-14-77

A 1/30-045
1060 4/250
MORTAR CUBES 4/77-9/77

X0325
02010

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 SHOREHAM N.Y. 11600.56

MORTAR SOUTH SHORE MASONRY A. THOMPSON MC 284A-F

10:00 CLEAR 58° 58 MORTAR 58

4-28-77 N/A N/A N/A N/A

3 N/A

N/A N/A N/A WITNESSED 1 DAY

N/A 180° 28 BY CONTRACTOR

C LINE AT LINE 8 EL 100'

45 CU FT N/A N/A N/A N/A

1 N/A N/A N/A NONE N/A

MORTAR BATCHED BY VOLUME NONE NONE

LONE STAR II MASON MIX INC

G&WH CORSON LIME N/A NONE

BATCHED 1/2 CU. FT. LIME NONE

S&W QC HA'S SHORREHAM N.Y. 4-28-77

6,000 5-5 & 5-26 7 & 28

TYPE OF BREAK: 1 2 3 4 5 6 7

MC 284A	2x2	5-5	5100	N	7	2	N
284B	2x2	5-5	5100		7	3	
284C	2x2	5-5	5450		7	3	
284D	2x2	5-26	10750	A	28	2	A
284E	2x2	5-26	11250		28	3	
284F	2x2	5-26	10700		28	3	

1338 7 2725 28

J. Mancuso
J. Mancuso

5-5-77
5-26-77

QA level 6/2/77

PRTS 2-22-02

C LINE AT LINE 8 EL 100'
MC 284A-F 4-28-77 7 & 28 11600.56

A 1V30-575
1060 4.250
Mortar Cubes 5/77

X0325 A 1V30-575
1060 4.250
02009 Mortar Cubes 5/77

STONE & WEBSTER ENGINEERING CORPORATION

REPORT ON COMPRESSIVE TESTS OF CONCRETE

Shoreham N Y 11600 56

SNPS 1 Mortar, South Shore Masonry, A Thompson MC 304 A F Control Rm Mortar 7+

5-16-77 10:00 Clear 70 N/A N/A

N/A N/A

3 N/A N/A N/A Wet Burlap 1 Day

N/A 180° 28 By Contractor

N/A

Toilet Area Wall 12' W of Line 12 N of Line C El 67' N/A N/A N/A

45 N/A

1 N/A N/A N/A None N/A

None None

Mortar Batched By Volume

Mason Mix Inc

Long Star II None

Gawh Corson Lime N/A

None

Batched 1/2 cu. ft. Lime

5-16-77

Shoreham NY

S&W QC Lab 5-23 & 6-13 7+28

Good

1 2 3 4 5 6 7

No.	Size	Test date	Lbs.		Age	Type	
3049	2x2	5-23	8350	N	7	2	N
3049	2x2	5-23	7650		7	2	
3046	2x2	5-23	8450	A	7	2	A
3046	2x2	6-13	10,150		28	7	
3040	2x2	6-13	11,350		28	4	
3046	2x2	6-13	11,050 RH		28	3	
6046	2x2						28

7 2463

2036

[illegible]

J Martel

5-23-77

6-13-77

E.A. [illegible] 6/19/77

Toilet Area Wall 12' W of Line 12 N of Line C

Rev 2-12-02

N.Y.

MC 849 A-F

1-5-77

Cloudy

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Dinner

1 Hour

Turbine ?? Generator

PR 6L 25 Cast Wall ?? Pedestal #?

N/A

N/A

N/A

N/A

None

None

N/A

None

?? Sq. Ft. Limit

None

Good

N.Y.

1-5-77

Good

1-12 + 2-2

7 + 28

NO	SIZE	TEST DATE			AGE AT TEST	TYPE OF BREAK	
				63	7	2	
	3x12	2-2			28	6	
	3x12	2-2	3,500		28	3	
3/5F	3x12	2-2	3,500		28	4	

1-12-77

2-2-77

2-22-01, 2-21-07

N.Y.

No 298 A-F

1-4-77

29

N/A | N/A | N/A

N/A | N/A

CONTRACTOR

C.R. First Curiness of Concrete's

N/A | N/A | N/A

N/A | N/A | N/A | None | N/A

None | None

N/A

None

1/2 CU. FT. LIME | None

Syracuse, N.Y. | 1-4-77

Good | 1-11 & 2-1

1 2 3 4 5 6 7

NO	SIZE	TEST DATE			AGE AT TEST	TYPE OF BREAK
2-22-01	2x2	2-1	[illegible]		28	4
2-22-02	2x2	2-1	[illegible]		28	4

1-11-77
2-1-77

NOS. 2-22-01, 2-22-02

CR EL of Bottom of Corridor #8

By Contractor

N/A | N/A | None | N/A

Batching Volume — None

Gordon — N/A — None

1/2 cu. ft. Lime — None

Shoreham, N.Y. — 1-3-77

1-10 41-31 — 7625

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	ULTIMATE LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
	2x2	1-31			28	2	
2178	2x2	1-31	15,100		28	3	
2178	2x2	1-31	15,150		28	3	

1550 — 7

1-11-77
1-31-77

QUPS. E-21-01

12-31-76

N/A

Commonwealth Contractor

C.R. CL 25 East Wall of Corridor

N/A

None

None

None

1/2 cu. ft. lift

N.Y.

1-7 41-20

Good

SIZE	TEST DATE	WEIGHT PER CUBIC FOOT
2x2	1-23	
2x2	1-23	

N.Y. 11-10-76

Furnished ... 244 A-B Concrete

12-10-76 ... Rings ... 32

N/A ... N/A ... N/A

N/A

N/A ... N/A ... N/A ... 1 DAY

N/A ... 28 ... by Contractor

EL 25 (East) Wall on Corridor

.5 ... N/A ... N/A ... N/A

N/A ... N/A ... N/A ... None

Batched by Volume ... None ... None

... Spec. ... Inc.

... N/A ... None

1/2 cu. ft. lime ... None

Test ... Lab ... Shoreham ... 12-10-76

Good ... 1-6 & 1-27 ... 7628

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	28	[illegible]
2148	246	1-13	15000		28	4
2149	242	1-27	15600		28	4

1040 ... 7 ... 2000

1-16-
1-27-77

ENG 2-22-81

CPS-1

A. Lindquist

12-29-76

Oswego, N.Y.

C 243 R-E

Pecan

Contractor

20

N/A

Good

1 Day

28 Days by Contractor

N/A

Containment Wall Corridor

N/A

None

N/A

Darguard by Volume

None

Lone Star

Type I

N/A

None

1/2 cu. ft. LMC

Syracuse, N.Y.

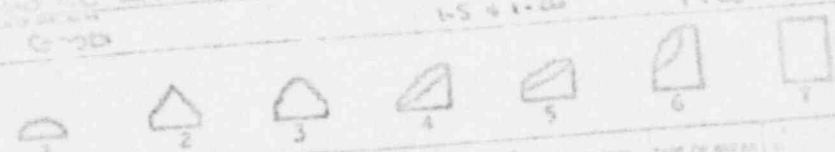
12-29-76

Lab

1-5 & 1-26

7420

Good



NO	SIZE	TEST DATE			AGE AT TEST	TYPE OF BREAK	
	2x2	1-5			7		
	2x2	1-5			7		
	2x2	1-5			7	3	
	2x2	1-26			28	2	
2136	2x2	1-26	7700		28	3	
2137	2x2	1-26					

2703

1-5-77

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

Shoreham N.Y.

11600-56

Mortar — South Shore Masonry

A. Thompson

MC 232 A-F Inside

Control Room

65

11-29-76

9 30

N/A

N/A

N/A

N/A

3

N/A

N/A

N/A — N/A

Wet Burlap — 1 Day

N/A

N/A

1250 — 28 days — By Contractor

C.R. EL 63 Walls In N.E. Corner Sampled @ EL 73'

4.5 cu ft — N/A

N/A — N/A — N/A

2 — N/A — N/A — N/A

None

N/A

Mortar Batched By Volume

None

None

Lone Star — II

Mason Mix Inc.

Lynn. Carson Lime — N/A

None

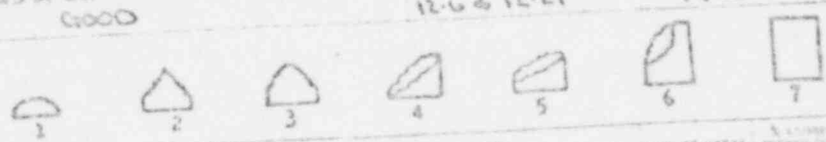
Batched ½ cu. ft. Lime

None

SNW QC Lab — Shoreham NY — 11-29-76

12-6 & 12-27 — 7 & 28 days

Good



No.	Size	Test Date	Breaking Load	Weight per Cubic Foot	Age at Test	Type of Break	% Aggregate Broken Through Fracture
MC 232A	2x2	12-6	7200	N/A	7	2	N/A
232B	2x2	12-6	7000		7	2	
232C	2x2	12-6	8000		7	3	
232D	2x2	12-27	11000		28	3	
232E	2x2	12-27	11500		28	2	
232F	2x2	12-27	11200		28	5	

1850 — 7 — 2588 — 28

R. Mannello

S.W. Crowe

Mortar Cubes

S.W. Crowe — 12-6-76

J.R. Kilpatrick — 12-27-76

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | PROJECT LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.56

MORTAR, TOOTH BRUSH RESIDUE | SPECIMENS TAKEN BY: A. THOMPSON | SPECIMENS: MC 231 A-F | LOCATION SAMPLED: CONTROL ROOM

DATE SAMPLED: 11-24-76 | HOUR: 10 30 AM | WEATHER: CLEAR | AIR TEMP: 37 | MORTAR TEMP: 52

READY MIXED CONCRETE: N/A | TIME AFTER ADDITION OF CEMENT AND WATER TO DISCHARGE: N/A | TRUCK CAPACITY: N/A | TRUCK NO.: N/A

TIME OF MIXING AT SITE: 3 MIN | REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A | SAMPLE TAKEN: AT POINT OF PLACEMENT

METHOD: N/A | SLUMP: N/A | AIR CONTENT: N/A | CURING AT SITE: WET BURLAP, 1 DAY

METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A | SPECIFIED DESIGN COMPRESSIVE STRENGTH: 1800 PSI AT 28 DAYS BY CONTRACTOR

LOCATION OF SPECIMENS PLACEMENT: EL 63 NE CORNER OF C.R.

FINE AGGREGATE: 4.5 CU FT | WATER CONTAINED: N/A | COARSE AGGREGATE: — | WATER CONTAINED: N/A | WATER ADDED: N/A | TOTAL WATER CONTAINED: N/A

CEMENT: 1 BAGS | N/A | N/A | WATER CEMENT RATIO: N/A | AIR ENTRAINING ADMIXTURE: NONE | N/A

MORTAR BATCHED BY VOLUME | NONE | NONE

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | — | MASON MIX INC.

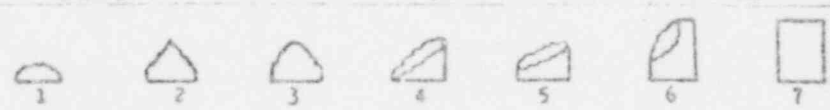
SOURCE: GENY CARSON | N/A | — | NONE

REMARKS: BATCHED 1/2 CU. FT. LIME + 2 SILICA SAND | NONE

TESTING LABORATORY: S&W QC LAB | SHOREHAM NY | 11-24-76

CONDITION OF SPECIMEN: GOOD | DATE OF TESTS: 12-1 & 12-22 | 7 & 28 DAYS

TYPE OF BREAK



NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 231A	2x2	12-1	9000	N/A	7	2	N/A
231B	2x2	12-1	9000		7	2	
231C	2x2	12-1	10000		7	2	
231D	2x2	12-22	13000		28	3	
231E	2x2	12-22	13200		28	2	
231F	2x2	12-22	16000		28	3	

2367 | 7 DAYS | 3100 / 4007 | 28 DAYS

SIGNED: S. Marinaldo
S. Marinaldo

FOR TESTING LAB

DATE: 12-1-76
12-22-76

✓ AW Crewe
✓ R.F. Tornold

MTE 2-22-01

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

SHOREHAM N.Y.

11600.50

MORTAR

A. THOMPSON

MC 225 A-F

CONTROL RM.

11-16-76

2 ^{00}

CLEAR

50° 51

N/A

N/A

N/A

N/A

3

N/A

N/A

N/A

N/A

WET BURLAP 1 DAY

N/A

70°

28 ... BY CONTRACTOR

CONTROL RM - SPECTRAGLAZO WALL IN N.E. CORNER

45

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

MORTAR BATCHED BY VOLUME

LONE STAR II

Mason Mix Inc

G+W.H. GYPSUM N/A

BATCHED 1/2 cu ft LIME / R. Fitzgerald

S&W QC LAB

SHOREHAM NY

11-17-76

GOOD

11-23 & 12-14

6427

1 2 3 4 5 6 7

MC 225A	2x2	11-23	8600	N/A	7	2	N/A
225B	2x2	11-23	7800		7	2	
225C	2x2	11-23	8700		7	2	
225D	2x2	12-14	14200		28	3	
225E	2x2	12-14	14800		28	2	
225F	2x2	12-14	14200		28	3	

2050 7 3600 28

S. Mann

S. Mann

11-23-76

12-14-76

J. Sullivan

R. Fitzgerald

FMTL 2-22-84

MC 225 11-16-76 3850 3750 3850 CONTROL RM SPECTRA GLAZE WALL N/2 28 11600.50

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | A. THOMPSON | MC 222 A-F | CONTROL ROOM

11-11-76 | 10^{30} | CLEAR | 90

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 7 & 28 BY CONTRACTOR

AREA C-10 ON DWG FA 10C-7

45 $^{9}_{0}$ | N/A | N/A | N/A | N/A

2 | N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON SAND

6 WT SCREEN | N/A

BATCHED 1/2 cu ft LIME R. Fitzgerald

S&W QC LAB | SHOREHAM N.Y. | 11-12-76

GOOD | 11-18 & 12-9 | 6 & 27

MC 222A	2X2	11-18	11,200	N	7	2
222B	2X2	11-18	10,400		7	2
222C	2X2	11-18	10,000		7	2
222D	2X2	12-9	10,400	A	28	2
222E	2X2	12-9	18,000		28	2
222F	2X2	12-9	15,600		28	3

2633 | 7 | 4317 | 28

B. Manniello
B. Manniello

✓ Sal Crane | 11-18-76

MTL 2-22-01 | ✓ R. Fitzgerald | 12-9-76

MC 222 A-F 11600.50 AREA C-10 ON DWG FA 10C-7

SNPS-1

Shoreham N.Y. | 11602-50

Mortar | South Shore Masons | A. Thompson | MC 181 A-F | Control Rm.

8-27-76 | 8 1/2 | Clear | 72 | 74

N/A | N/A | N/A | N/A

3 | N/A | Wet Burlap | 1 Day

N/A | N/A | N/A

N/A | 1800 at 28 days | By Contractor

Control Rm El 63' N.W. Stairway Wall

45 cu ft | N/A | N/A | N/A | N/A

2 | N/A | N/A | N/A | N/A

Mortar Batched By Volume

Lone Star | II | Mason Mix Inc

6 x W.H. Greson | N/A

Batched 1/2 cu ft Lime

S&W QC Lab | Shoreham N.Y. | 8-25-76

Good | 8-31 & 9-21 | 7 & 28 | 6 & 27

No.	Size	Test Date	Breaking Load		Age at Test	Type of Break	
MC 181A	2x2	8-31	6150 lbs	N/A	7 days	2	N/A
181B	2x2	8-31	6300		7	2	
181C	2x2	8-31	6450 lbs		7 days	2	
181D	2x2	9-21	12200		28	2	
181E	2x2	9-21	12400		28	2	
181F	2x2	9-21	13000		28	2	

1575 | 7 | 3133 | 28

S. Maniscalco
S. Maniscalco

8-31-76
9-21-76

NOTED SEP 27 1976

MTE 2-22-02, 2-22-01

MC181 8-24-76 3650 3100 3250 Control Rm El 63 NW Stairway Wall

SNPS-1

SHOREHAM N.Y. 11600.50

Contractor: South Shore Mason — A. Thompson — MC 180 A-F — Cont. of Rm

8-23-76 — 10 — Clear — 72

N/A

N/A — N/A — N/A

N/A

N/A — N/A — N/A — Wet Burlap — 1 Day

N/A

18 — 28 — By Contractor

CR EL 63 N.W. Stairway

45 cu ft — N/A — N/A — N/A — N/A

N/A — N/A — N/A — N/A

Mortar Batched By Volume

Lone Star — II — Mason Mix Inc.

64 W.H. Corson — N/A

Batched ½ cu ft Lime

SSW QC Lab — Shoreham N.Y. — 8-24-76

Good — 8-30 & 9-20 — 7 & 28 6E27

1 2 3 4 5 6 7

MC 180A	2x2	8-30	6,000 lbs	N/A	7 days	2	N/A
180B	2x2	8-30	6550		7	2	
180C	2x2	8-30	6950 lbs		7 days	3	
180D	2x2	9-20	11,000		28	2	
180E	2x2	9-20	11,000		28	2	
180F	2x2	9-20	11,400		28	3	

1625 — 7 — 2850 — 28

NOTED SEP 27 1976

8-30-76
9-20-76

MZ 2-22-02

MC 180 — CR23 — 2750 — 2850 — 2850 — CR EL 63 N.W. Stairway — 11600.50

SNPS-1 SHOREHAM N.Y. 11604 50

SOUTH SHORE MASONS A. THOMPSON MC 179 A-F CONTROL ROOM

8-20-76 A-76 CREAR 76 N/A

N/A N/A N/A

WET BURLAP 1 DAY

BY CONTRACTOR

CR EL 63 NW STAIRWAY

45 N/A N/A N/A N/A

MORTAR BATCHED BY VOLUME MASON MIX LIME

LONG STAR II

GY W.H. CORSON N/A

BATCHED 1/2 cu ft LIME

SHOREHAM NY 8-21-76

SW QC LAB 8-27 9-17

GOOD

MC 179A	2X2	8-27	6600		7	2
179B	2X2	8-27	6600		7	2
179C	2X2	8-27	6400		7	2
179D	2X2	9-17	12,800		28	2
179E	2X2	9-17	11,800		28	2
179F	2X2	9-17	12,400		28	2

1629 7 3033 28

8-27-76
9-17-76

NOTED SEP 27 1976

NTTP 2.22.02, 2-22-01

REPORT OF COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASON | A. THOMPSON | MK 178 A-F | CONTROL ROOM

8-19-76 | 9 00 | CLEAR | 66 | 28

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP 1 DAY

N/A | 1800 28 DAYS | BY CONTRACTOR

CR - EL 63 NW STAIRWAY

45 CU FT | N/A | N/A | N/A | N/A

N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON MIX INC

S&WH CORSON | N/A

BATCHED 1/2 cu ft LIME

S&W QC LAB | SHOREHAM N.Y. | 8-20-76

GOOD | 8-26 & 9-16 | 7 & 28 DAYS

TYPE OF BREAK: 1 | 2 | 3 | 4 | 5 | 6 | 7

MK 178A	2X2	8-26	6250		7 DAYS	3	
178B	2X2	8-26	6300		7	3	
178C	2X2	8-26	6200		7 DAYS	4	
178D	2X2	9-16	12,000	N	28	2	N
178E	2X2	9-16	11,400	A	28	2	A
178F	2X2	9-16	11,800		28	2	

1565 screen 9127 | 7 | 6433 | 28

NOTED SEP 27 1976

DATE 2-22-02

S. Mainello
S. Mainello

8-26-76
9-16-76

1178 ... 081976 ... 3000 2850 2950 ... EL 63 NW STAIRWAY ... 11600.50

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASON | A. THOMPSON MC 177 A-F | CONTROL RM.

8-18-76 | 8 45 | CLEAR | 72 | 74

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 18 | 25 | BY CONTRACTOR

CR - EL 63 NW STAIRWAY

45 CU FT — N/A | — | N/A | N/A | N/A

N/A | N/A | N/A | — | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | Mason Mix Inc

by W.H. Corson | N/A

BATCHED ½ cu ft LIME

S&W QC LAB | SHOREHAM N.Y. | 8-19-76

GOOD | 9-15 | 8-25

TYPE OF BREAK

No.	Size	Test Date	Strength		Age at Test	Type of Break	
MC 177A	2x2	8-25	6200	N	7 DAYS	2	N
177B	2x2	8-25	6250		7	2	
177C	2x2	8-25	6000		7 DAYS	2	
177D	2x2	9-15	10,000		28	2	
177E	2x2	9-15	11,000	A	28	2	A
177F	2x2	9-15	9800		28	2	

1538 | 7 | 2567 | 28

NOTED SEP 21 1976

✓ R. Fitzgerald

B. Manuello

B. Manuello

8-25-76

9-15-76

MTE 2-22-02, MTE 2-22-01

MC 177 | 2500 | 2 | CR EL 63 | NW STAIRWAY

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND SENT WITH EACH TEST SPECIMEN SENT TO THE LABORATORY

Project	Location	J.O. No.
SNPS-1	Shoreham N.Y.	11600.50

Manufactured by	Specimen taken by	Specimen No.	Location
MORTAR South Shore Mixer	A. Thompson	MC 172 A-F	Control Room

Date sampled	Time	Weather	Air temp / Mortar temp
8-2-76	9 30 AM	Clear	74 / 79

Ready mixed concrete: N/A — Truck capacity: N/A — Truck No.: N/A

Time of mixing: 3 min — Revolutions of drum or agitator: N/A

Sample taken: at point of placement

Method of rodding: N/A — Slump: N/A — Air: N/A — Curing: Wet Burlap 1 Day

Method of packing sample for shipment: N/A — Design strength: 1800 psi at 28 days — Designed by: By Contractor

Location of placement:

EL 63 Betw 12-16½ From Cto 14' N of C

Mix: 45 cu ft — N/A — N/A — N/A — N/A

Quantity of cement: 4 — N/A — N/A — N/A — N/A

Remarks:

Mortar Batched By Volume

Cement: Lone Star — Type: II — Supplier: Mason Mix Inc

Aggregate source: 64 W H Gerson — N/A

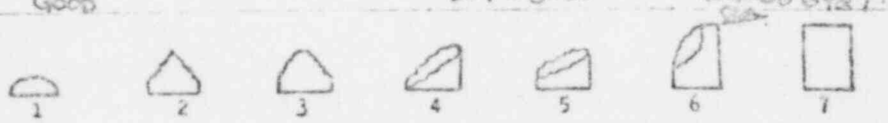
Remarks:

Batched ½ cu ft Lime

Testing laboratory	Location	Date received
S&W QC Lab	Shoreham N.Y.	8-3-76

Condition of specimen: Good — Test dates: 8-9 & 8-30 — 6 & 27

TYPE OF BREAK



TEST RESULTS

No.	Size	Test date	Breaking load	Weight per cubic foot	Age at test	Type of break	Strength
172A	2x2"	8-9	6800	N/A	7 days	2	N/A
172B	2x2"	8-9	6700		7	2	
172C	2x2"	8-9	7150		7 days	2	
172D	2x2"	8-30	10,300		28	2	
172E	2x2"	8-30	10,400		28	2	
172F	2x2"	8-30	10,950		28	2	

Remarks: 1721 — 7 — 2638 — 28

S. Mainella
S. Mainella

Date: 8-9-76
8-30-76

NOTED SEP 3 1976

MTE 2-22-02 ✓ L. Bajada

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

SHOREHAM N.Y.

11600.50

MORTAR SOUTH SHORE MASONRY

A. THOMPSON MC 170 A-F

CONTROL ROOM

9-20-26

9 AM

RAIN

72 77

N/A N/A N/A N/A

3 N/A

WET BURLAP 1 DAY

N/A N/A N/A

N/A 18 28 BY CONTRACTOR

BETW 12-16½ FROM C TO 14' N of C @ EL 63

45 N/A N/A N/A N/A

N/A N/A N/A N/A

MORTAR BATCHED BY VOLUME

LONE STAR II

G+W H. SERIES N/A

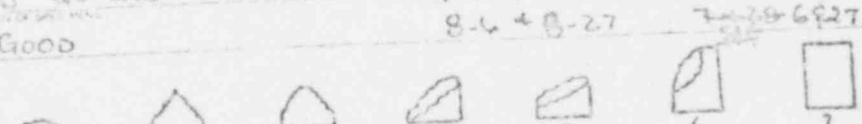
BATCHED ½ cu ft LIME

S&W QC LAB SHOREHAM NY 7-31-76

8-6 & 8-27 7-28 6927

GOOD

TYPE OF BREAK



1 2 3 4 5 6 7

TEST RESULTS

GC-170A	2x2	8-6	9,900		7	2	
-170B	2x2	8-6	10,050		7	2	
-170C	2x2	8-6	9,450	N	7	2	N
-170D	2x2	8-27	14,000	A	28		A
170E	2x2	8-27	14,500		28		
170F	2x2	8-27	14,200		28		

3558 28

3942 28

2483

84

7

NOTED AUG 30 1976

8-6-76

8-27-76

R. Sitzwald

GC170 ... 3500 ... 3650 ... 3550 ... 14-16½ FROM C TO 14' N of C @ EL 63

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONS | A. THOMPSON | MC 167 A-F | COMMON R.M.

7-29-76 | 8 ^{30} | CLEAR | 75 | 79

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP 1 DAY

N/A | 18 ^{36} | 28 | BY CONTRACTOR

BETW 12-16 1/8 FROM C TO 14' N of C CL 63

45 | N/A | N/A | N/A | N/A

3 | N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON MIX IN.

by W.H. CERSON | N/A

BATCHED 1/2 ft LIME

S&W QC LAB | SHOREHAM NY. | 7-30-76

GOOD | 8-26 | 8-5 | 7-8-SS 6-27

TYPE OF BREAK

MC 167A	2x2	8-5	9450	N/A	7 DAYS	2	N/A
167B	2x2	8-5	9250		7	2	
167C	2x2	8-5	9200		7 DAYS	2	
167D	2x2	8-26	14600		28	2	
167E	2x2	8-26	14500		28	2	
167F	2x2	8-26	13650		28	2	

2325 | 7 | 3563 | 28

NOTED AUG 27 1976

A. Marinello

S. Marinello

8-5-76

8-26-76

R. Fitzgerald

MC 167 072976 3650 3410 ... 11600.50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETED AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONS | A. THOMPSON | AC 166 A-F | CONTROL RM

7-28-76 | 8 15 AM | 73 CLEAR | 73 | 77

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP 1 DAY

N/A | 18 HRS | 28 DAYS | BY CONTRACTOR

BETWEEN 12-16½ FROM C TO 14' N OF C EL 63'

4 CU FT | N/A | N/A | N/A | N/A

4 | N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON MIX INC

BY W.H. CORSON | N/A

BATCHED ½ cu ft LIME

S&W QC LAB | SHOREHAM NY | 7-29-76

GOOD | 8-4 | 8-25 | 206127

1 2 3 4 5 6 7

AC 166A	2x2	8-4	7900	N/A	7 DAY	2	N/A
166B	2x2	8-4	8250		7	2	
166C	2x2	8-4	8450		7 DAY	2	
166D	2x2	8-25	14250		28	2	
166E	2x2	8-25	14500		28	2	
166F	2x2	8-25	13450		28	3	

2054 | 7 | 3517 | 28

S. Mainelli
S. Mainelli

NOTED AUG 27 1976

R. S. Donald

8-4-76
8-25-76

AC166 A-F 7-28-76 3550 3630 3360 From 12-16½ from C to 14 N of C EL 63

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS - 1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASON | A. THOMPSON | MC 164 A-F | Turbine Control Rm.

7-27-76 | 9 30 | CLEAR | 99 | 99

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | N/A | WET BURLAP 1 DAY

N/A | 18 30 | 28 | BY CONTRACTOR

BETW 12-16 1/2 FROM C TO 14' N OF C CL 63

45 CU FT | N/A | N/A | N/A | N/A

3 | N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON MIX INC

BY W.H. GERSON | N/A

BATCHED 1/2 cu ft LIME

S&W QC LAB | SHOREHAM N.Y. | 7-28-76

GOOD | 83 & 8-24 | 7-28 6 EST

1 2 3 4 5 6 7

MC 164A	2x2	8-3	7508		7 DAYS	3	
164 B	2x2	8-3	6500		7	3	
164 C	2x2	8-3	7150	N	7 DAYS	3	N
164 D	2x2	8-24	11,050		28	3	
164 E	2x2	8-24	11400	A	28	3	A
164 F	2x2	8-24	10830		28	4	

1763 ✓

7 | 2771 | 28

NOTED AUG 27 1976

8-3-76
8-24-76

MTC

LOCATION: 12-16 1/2 FROM CL 63 TO 14' N OF CL 63

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS - 1 — SHOREHAM N.Y. — 11600.50

MORTAR — SOUTH SHORE MASONS — A. THOMPSON — MC 163 A-F — CONTROL RM BLDG

7-26-76 — 9 AM — CLEAR — 70 — 75

N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 1800 — 28 — BY CONTRACTOR

EL 63' WALLS IN SE CORNER

4.5 CU FT — N/A — — — N/A — N/A — N/A

N/A — N/A — N/A — — — N/A

MORTAR BATCHED BY VOLUME

LONE STAR — II — — — Mason Mix Inc

G+W H CORSON — N/A — —

BATCHED ½ cu ft LIME

S+W Q.C. LAB — Shoreham, N.Y. — 7-27-76

GOOD — 8-2 + 8-23 — 6x27

TYPE OF BREAK

1 2 3 4 5 6 7

TEST RESULTS

MC-163A	2x2	8-2	10,000 LBS	7 DAYS	2
-163B	2x2	8-2	10,850	7	2
-163C	2x2	8-2	9,500 LBS	7 DAYS	2
-163D	2x2	8-23	15,000	28	4
-163E	2x2	8-23	14,500	28	3
-163F	2x2	8-23	15,500	28	3

2529 — 7 — 3750 — 28

NOTED AUG 27 1976

R. Reynolds
Sam W. Cleave

8-2-76
8-23-76

J. P. Sitomer

MC-163 D 7-26-76 3750 3625 3875 CONTROL RM BLDG EL 63' WALLS IN SE CORNER 11600.50

REPORT OF COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND SENT TO ... EACH TEST ... SENT TO THE ... OFFICE

SNPS - 1 | Shoreham N.Y. | 11600.50

Contractor: MASTAR | South Shore Masonry | A. Thompson | MC 162 A-F | Control Rm Bldg.

Date sampled: 7-23-76 | 10 [illegible] | Clear | 71 | 78

Ready mixed concrete: N/A | N/A | N/A | N/A

3 | N/A

Method of placing: N/A | N/A | N/A | Wet Burlap | 1 Day

N/A | 7 [illegible] 28 [illegible] | By Contractor

Location of placement:

EL 63' Walls In SE Corner

4.5 CU FT — N/A | N/A | N/A | N/A

1 | N/A | N/A | N/A | — | N/A

Remarks:

Mortar Batched By Volume

Lone Star | II | — | Mason Mix Inc

G&WH Corson | N/A | — | —

Batched ½ cu ft Lime ✓ R. Fitzgerald

S&W Q.C. Lab | Shoreham N.Y. | 7-24-76

Good | 7-30 + 8-20 | 6+27

Type of break:

1 2 3 4 5 6 7

No.	Size	Test date	Load lbs		Age at test	Type of break
~~MC-162A~~	~~2" x 2"~~	~~7-30~~	~~10,000 LBS~~		~~7 Days~~	~~2~~
-162B	2" x 2"	7-30	10,750		7	2
~~-162C~~	~~2" x 2"~~	~~7-30~~	~~10,100 LBS~~		~~7 Days~~	~~2~~
-162D	2" x 2"	8-20	17,000		28	2
-162E	2" x 2"	8-20	14,600		28	2
-162F	2" x 2"	8-20	14,950		28	2

2571 | 7 | 3879 | 28

D. Manuello

D. Manuello

NOTED AUG 22 1976 E.E. [illegible]

7-30-76

8-20-76

MTTE # 2-22-02 ✓ R. Fitzgerald

MC-162 072376 4250 3650 3740 CONTROL RM BLDG-EL 63' WALLS IN SE CORNER BLDG 50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH SET SPECIMEN SENT TO THE LABORATORY

SNPS - 1 | SHOREHAM N.Y. | 11600.50

MORTAR | SOUTH SHORE MASONS | A. THOMPSON | MC 160 A-F | CONTROL RM BLD.

7-22-76 | 8 15 | CLEAR | 75 | 78

N/A | N/A | N/A | N/A

3 | N/A

N/A | N/A | N/A | WET BURLAP | 1 DAY

N/A | 18 | 25 | BY CONTRACTOR

EL 63' WALLS IN SE CORNER.

45 | N/A | N/A | N/A | N/A

3 | N/A | N/A | N/A | N/A

MORTAR BATCHED BY VOLUME

LONE STAR | II | MASON MIX INC

BY WH CORSON | N/A

BATCHED 1/2 CU. FT. LIME

S&W QC. LAB | SHOREHAM, N.Y. | 7-23-76

GOOD | 7-29 + 8-19 | 6+27

TYPE OF BREAK

1 2 3 4 5 6 7

TEST RESULTS

MC-160A	2"x2"	7-29	3500 LBS		7 DAYS	2	
-160B	2"x2"	7-29	3150		7	2	
-160C	2"x2"	7-29	3400 LBS		7 DAYS	2	
-160D	2"x2"	8-19	6400	N/A	28	2	N/A
-160E	2"x2"	8-19	6,000		28	2	
-160F	2"x2"	8-19	5800		28	2	

838 | 7 | 1517 | 28

REFER NE D918

NOTED AUG 23 1976

S. Marinello
S. Marinello

7-29-76
8-19-76

MTE # 3 22 02 ✓ R. Fitzgerald

MC-160 072276 1600 1500 CONTROL ROOM BLDG.-EL. 63' WALLS IN SE CORNER 11600.50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 SHOREHAM N.Y. 11600.50

MORTAR SOUTH SHORE MASONRY A THOMPSON MC-147 A-F CONTROL RM

7-2-76 9:45 Clear 76 77

N/A N/A N/A N/A

N/A

N/A N/A N/A WET BURLAP 1 DAY

N/A 1802 28 BY CONTRACTOR

CR BLDG CLEV COMPUTER RM SAMPLE @ EL 54'

45 N/A — N/A N/A N/A

N/A N/A N/A — N/A

MORTAR BATCHED BY VOLUME

LONE STAR II MASON MIX

G + W H SCREEN N/A —

BATCHED ½ cu ft time

S+W Q.C. LAB Shoreham, N.Y. 7-3-76

Good 7-9 + 7-30 6+27

TYPE OF BREAK

1 2 3 4 5 6 7

MC147A	2" x 2	7-9	7,400		7 days	2
-147B	2" x 2"	7-9	6,900	N	7	2
-147C	2" x 2"	7-9	7,200	A	7 days	3
-147D	2" x 2"	7-30	11,300		28	2
-147E	2" x 2"	7-30	11,250		28	2
-147F	2" x 2"	7-30	11,500		28	2

1,792 7 2838 28

L. Bajada

D. Marinello

7-9-76

7-30-76

R. Fitzgerald 8-4-76

MTF # 2-22-02

MC-147 070276 2840 1810 2680 CONTROL RM-EL 54' COMPUTER RM SAMPLE @ EL 54' 11600.50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

SNPS-1 | Shoreham N.Y. | 11600.50

Mortar — South Shore Blocks | A. Thompson | QC 144 A-F | Control Rm.

6-30-76 | 9:50 | Cloudy | 78 | 72

N/A | N/A | N/A | N/A

3 | N/A | Wet Burlap 1 Day

N/A | N/A | N/A

N/A | 18" | 28 | By Contractor

CR Bldg El 44 Computer Rm Sampled At El 49'

45 cu ft | N/A | — | N/A | N/A | N/A

N/A | N/A | N/A | — | N/A

Mortar Batched By Volume

Lone Star | II | Mason Mix

G & WH Corton | N/A

Batched ½ cu ft Lime – R. Fitzgerald

STW QC. LAB | Shoreham, N.Y. | 7-1-76

Good | 7-7 & 7-28 | 6 & 27

TYPE OF BREAK

TEST RESULTS

QC-144A	2" x 2"	7-7	7,300 lbs		7 days	2
-144B	2" x 2"	7-7	6,900	N.A.	7	2
-144C	2" x 2"	7-7	6,850 lbs		7 days	3
-144D	2 x 2"	7-28	12,250		28	2
-144E	2" x 2"	7-28	9,100		28	2
-144F	2 x 2"	7-28	10,500	N.A.	28	2

1,763 | 7 | ~~2559~~ 2559 | 28

L. Byoda

S. Mancelli

7-7-76

7-28-76

NTE #2 22-02 R. Fitzgerald 7-28-76

QC-144 6-30-76 2560 2480 CONTROL RM. EL 44 - COMPUTER RM - SAMPLED EL 49

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETED IN FIELD AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS #1 — Shoreham, N.Y. — 11600.50

Contractor: South Shore Mason — Inspector: A. Calabro — MC-140 — Control Rm.

6-24-76 — 8:50 — Cloudy — 75°

N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — Wet Burlap 1 Day

N/A — 182 — 28 — By Contractor

Control Room, S/W Stairway El. 44'

45 — N/A — N/A — N/A — N/A

N/A — N/A — N/A — N/A

Mortar Batched By Volume

Lone Star — II — Mason Mix Inc

G & W H Corson — N/A

Batched ½ cu ft Lime

S&W Q.C. Lab — Shoreham, N.Y. — 6-25-76

Good — 7-1 + 7-22 — 6+27

Type of break: 1, 2, 3, 4, 5, 6, 7

No.	Size	Test Date	Load		Age at Test	Type of Break
MC-140A	2" x 2"	7-1	6,500 lbs	N/A	7 days	3
-140B	2" x 2"	7-1	4,600		7	4
-140C	2" x 2"	7-1	6,400 lbs		7 days	3
-140D	2" x 2"	7-22	11,250		28	2
-140E	2" x 2"	7-22	10,450		28	2
-140F	2" x 2"	7-22	11,400		28	3

1458 — 7 — 2842 — 2526 — 28

L. Bojeda

B. Malinski

7-1-76

7-22-76

ATTE #2-27-02

MC-140 06-24-76 CNIO 2760 CONTROL RM.-S/W STAIRWAY EL. 44' 11600.50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND KEPT ... SPECIMEN SENT TO THE LABORATORY

SNPS #1 — SHOREHAM, N.Y. — 11600.50

MORTAR — SOUTH SHORE MASONS — A. CALABRO — MC-136 A-F — CONTROL RM.

6-22-76 — 8:30 AM — Cloudy — 76°

N/A — N/A — N/A — N/A

3 — N/A

N/A — N/A — N/A — WET BURLAP — 1 DAY

N/A — 18 — 28 — By CONTRACTOR

CONTROL ROOM SO. WEST STAIRWAY EL. 44'

45 — N/A — — — N/A — N/A — N/A

— — — —

N/A — N/A — N/A — — — N/A

MORTAR BATCHED BY VOLUME

LONE STAR — II — Mason Mix Inc

by W.H. Corson — N/A

BATCHED 1/2 cu ft LIME & R. Fitzgerald

S+W Q.C. LAB — Shoreham, N.Y. — 6-23-76

GOOD — 6-29 + 7-20 — 6+27

TYPE OF BREAK

1 2 3 4 5 6 7

TEST RESULTS

MC-136A	2"x2"	6-29	6,650 LBS		7 Days	3	
-136B	2"x2"	6-29	6,450		7	3	
-136C	2"x2"	6-29	6,400 LBS		7 Days	3	
-136D	2"x2"	7-20	10,000	N.	28	3	N.
-136E	2"x2"	7-20	10,050	A.	28	2	A.
-136F	2"x2"	7-20	10,300		28	3	

1625 — 7 — 2519 — 28

L. Bysiak
J. Mar[illegible]
6-29-76
7-20-76

[illegible signature]

ATTE #2-22-02

11600.50

MC-136 . 06 22 76 . 2500 . 2540 . 2560 . CONTROL RM.- S/W STAIRWAY EL. 44'

REPORT ON COMPRESSIVE TESTS OF CONCRETE

THIS FORM MUST BE COMPLETELY FILLED IN

SWPS-1		SHOREHAM, N.Y.	N030.50
FARENON	R. FITZGERALD	81 A thru F	CABLE BATTING
DATE SAMPLED 1-2-76	HOUR 9:45 AM	WEATHER CLEAR	29° F / 53° F
READY MIXED CONCRETE N/A		N/A	TRUCK CAPACITY N/A CY / N/A
N/A		SAMPLE TAKEN	POINT OF PLACEMENT
3	N/A	SLUMP N/A IN	TOTAL AIR N/A PER CENT / CURED AT SITE WET BURLAP 1 DAYS
METHOD OF PLACING N/A			SPECIFIED BY AS/CONTRACTOR
METHOD OF PACKING SAMPLE FOR SHIPMENT N/A	SPECIFIED DESIGN COMPRESSIVE STRESS 1800 LBS PER SQ IN AT 28 DAYS		

LOCATION OF CONCRETE PLACEMENT: CONT. & BATT. PHS. K

FINE AGGREGATE 75 LBS	WATER CONTAINED N/A GALS	COARSE AGGREGATE N/A LBS	WATER CONTAINED N/A GALS / WATER ADDED 15 GALS / TOTAL WATER CONTAINED 15 GALS
		COARSE AGGREGATE N/A LBS	WATER USED N/A GALS
SURFACE DRY FINE AGGREGATE N/A			AIR ENTRAINING ADMIXTURE PER CU YD N/A OZS / SLUMP N/A IN
QUANTITY OF CEMENT 2 BAGS	YIELD N/A CU YDS	CEMENT PER CU YD N/A BAGS	WATER-CEMENT RATIO N/A
			WATER REDUCING AGENT N/A / N/A

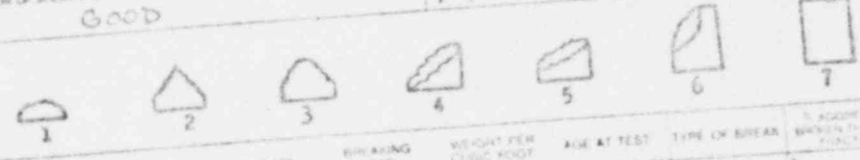
BATCHING OF MORTAR BY VOLUME

BRAND OF CEMENT LONE STAR	TYPE OF CEMENT II DARK	SOURCE OF COARSE AGGREGATE N/A	SOURCE OF FINE AGGREGATE SUFFOLK HIRING
SOURCE OF COARSE AGGREGATE N/A	SPECIFIC GRAVITY OF AGGREGATES FINE N/A COARSE N/A		BRAND OF AIR ENTRAINING ADMIXTURE N/A
			BRAND OF WATER REDUCING AGENT N/A

REMARKS: FINE AGG. & WATER WTS. APPOX.

TESTING LABORATORY S+W Q.C. Lab	LOCATION Shoreham, N.Y.	DATE RECEIVED 1-3-76	DATE OF CURING IN LABORATORY 6+27 DAYS
CONDITION OF SPECIMEN GOOD		DATE OF TESTS 1-9 & 1-30	

TYPES OF BREAK



TEST RESULTS

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 81A	2"x2"	1-9	15,250 LBS	N/A	7 DAYS	2	N/A
MC 81B	2"x2"	1-9	15,800 LBS		7 DAYS	1	
MC 81C	2"x2"	1-9	15,406 LBS	N/A	28 DAYS	3	
MC 81D	2"x2"	1-30	20,950 LBS	N/A	28 DAYS	2	
MC 81E	2"x2"	1-30	20,900 LBS	N/A	28 DAYS	2	
MC 81F	2"x2"	1-30	20,300 LBS	N/A			

AVERAGE 3871 LBS PER SQ IN AT 7 DAYS; 5,146 LBS PER SQ IN AT 28 DAYS

REMARKS

SIGNED: L. Bijoda / L. Bijoda — FOR TESTING LAB

DATE: 1-9-76 / 1-30-76

MTE #2-22-02

S.E. Braun

CONTRACT 5130 ... POUR ... 81 DATE 1-2-76

REPORT ON COMPRESSIVE TESTS OF CONCRETE

THIS FORM MUST BE COMPLETELY FILLED IN ...

PROJECT: SNPS-1	Shoreham, N.Y.		11600.50
SPECIMENS MADE BY: HARNON	SPECIMENS TAKEN BY: A. THOMPSON	80 A thru F	Cont. & BATT. Rms.
DATE SAMPLED: 12-31-75	HOUR: 1:30	WEATHER: CLEAR	AIR TEMP 42° / CONCRETE TEMP 85°
READY MIXED CONCRETE: N/A		N/A	TRUCK CAPACITY N/A / N/A
	N/A	SAMPLE TAKEN: AT POINT OF PLACEMENT	
3			
METHOD OF PLACING: N/A		SLUMP N/A / TOTAL AIR N/A PER CENT	CURING AT JOB: Wet Burlap 1 days
METHOD OF PACKING SAMPLE FOR SHIPMENT: N/A		1800 LBS PER SQ IN AT 28 DAYS	S&W/CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: CONTROL & BATT. RMS.

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE	(A) WET AGGREGATE	N/A	N/A	WATER CONTAINED N/A / WATER ADDED 15 GALS / TOTAL WATER 15 1/2 GALS
	(B) SURFACE DRY AGGREGATE	N/A	N/A	N/A
QUANTITY OF CEMENT: 2 BAGS	N/A	N/A	N/A	N/A / SLUMP N/A
			WATER REDUCING AGENT N/A	N/A

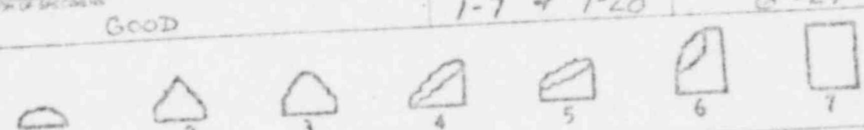
REMARKS: BATCHING OF MORTAR BY VOLUME

BRAND OF CEMENT: LONE STAR	TYPE OF CEMENT: II DARK	N/A	SOURCE OF FINE AGGREGATE: SUFFOLK MIXING
SOURCE OF COARSE AGGREGATE: N/A	SPECIFIC GRAVITY OF AGGREGATES: FINE N/A / COARSE N/A		BRAND OF AIR ENTRAINING ADMIXTURE: N/A
			BRAND OF WATER REDUCING AGENT: N/A

REMARKS: FINE AGG. & WATER WTS. APPROX.

TESTING LABORATORY: S&W Q.C. Lab	LOCATION: Shoreham, N.Y.	DATE RECEIVED: 1-1-76
CONDITION OF SPECIMENS: GOOD	DATE OF TESTS: 1-7 & 1-28	DAYS OF CURING IN LABORATORY: 6 & 27 DAYS

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC 80A	2"×2"	1-7	10,700 LBS	N/A	7 DAYS	2	N/A
MC 80B	2"×2"	1-7	10,600 LBS		7 DAYS	2	
MC 80C	2"×2"	1-7	10,600 LBS		28 DAYS	2	
MC 80D	2"×2"	1-28	16,600 LBS		28 DAYS	2	
MC 80E	2"×2"	1-28	17550 LBS		28 DAYS	2	
MC 80F	2"×2"	1-28	16800 LBS				

AVERAGE: 2658 LBS PER SQ INCH AT 7 DAYS; 4246 LBS PER SQ INCH AT 28 DAYS

REMARKS:

SIGNED: L. Bujnicki / L. Bujnicki FOR TESTING LAB.

DATE: 1-7-76 / 1-28-76

MTE #2-22-02

S.C. Forms

LOCATION OF POUR: CONTROL & BATT. RMS.

MC-080 12-31-75 1850 ASTM C-109

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1		Shoreham, N.Y.	J.O. No.: 11600.50
Mortar: CARPHON	Specimens taken by: A THOMPSON	Specimen Nos.: 79 A thru F	Location: Cont. & Batt Rms
Date: 12-30-75	Hour: 11:00 AM	Weather: CLEAR	Air temp.: 43° F — Mortar temp.: 48° F
Ready mixed concrete: N/A			
Type of mixer: 3	Revolutions of truck mixer or agitator: N/A	N/A	Truck capacity: N/A — N/A
Method of placing: N/A	Sample taken: at point of placement	Slump: N/A	Total air: N/A percent — Curing at site: WET BURLAP, 1 DAY
Method of packing sample for shipment: N/A	Specified design compressive stress: 1800 lbs per sq in at 28 days	Specified mix: AS/CONTRACTOR	

Location of concrete placement: CONTROL ROOM - BATT. RMS.

Complete information on either (a) or (b) as applicable	(a) Moist aggregate: 79 1/2 lbs	Water contained: N/A gals	N/A lbs	Water contained: N/A gals	Water added: 15 gals — Total water contained: 15 gals
	(b) Surface dry aggregate: N/A lbs		N/A lbs		Water used: N/A gals
Quantity of cement: 2 bags	Yield: N/A cu. yds	Cement per cu yd: N/A bags	Water/cement ratio: N/A	Air entraining admixture per cu yd: N/A	Slump: N/A in.
				Water reducing agent: N/A	Flow: N/A

Remarks: FINE AGG. & WATER WTS APPROX

Brand of cement: LONE STAR	Type of cement: II DARK	Maximum size coarse aggregate: N/A	Source of fine aggregate: Suffolk Mining
Source of coarse aggregate: N/A	Specific gravity of aggregates: N/A — Coarse: N/A	Brand of air entraining admixture: N/A	Brand of water reducing agent: N/A

Remarks: BATCHING OF MORTAR BY VOLUME

Testing laboratory: S+W QC LAB	Location: Shoreham, N.Y.	Date received: 12-31-75
Condition of specimens: GOOD	Date of tests: 1-6 + 1-27	Days of curing in laboratory: 6 + 27 days

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FROM TYPE
MC 79A	2"×2"	1-6	10,300 lbs			2	
MC 79B	2"×2"	1-6	10,250 lbs		7 days	3	
MC 79C	2"×2"	1-6	13,050 lbs		7 days	3	
MC 79D	2"×2"	1-27	21,100 lbs	N	28 days	2	N
MC 79E	2"×2"	1-27	20,150 lbs	A	28 days	2	A
MC 79F	2"×2"	1-27	19,450 lbs		28 days	2	

Average: 2800 lbs per sq in at 7 days — Average: 5059 lbs per sq inch at 28 days

Signed: L. Bujnda L. Bujnda, for testing lab

Date: 1-6-76, 1-27-76

DATE # 2-22-02

R.A. Lovell

REPORT ON COMPRESSIVE TESTS OF CONCRETE

SHPS-1

SHOREHAM, N.Y.

ITEM 52

A. THOMPSON

MC-77/78 A-C

BATT. RMS.

12-26-75

10:15

40

N/A

N/A

N/A

N/A

WET BURLAP

N/A

N/A

1800 LBS PER SQ IN AT 28 DAYS

AS/CONTRACTOR

CONTROL ROOM - BATT. RMS. ELV. 25'

N/A

N/A

15 GALS

15 GALS

N/A

N/A

N/A

2 SACKS

N/A

N/A

N/A

N/A

N/A

N/A

N/A

BATCHING OF MORTAR BY VOLUME

LONE STAR

II DARK

N/A

SUFFOLK MIXING

N/A

N/A

N/A

N/A

N/A

FINE AGG. & WATER WTS. APPOX.

S&W Q.C. Lab

Shoreham, N.Y.

12-27-75

GOOD

12-29, 1-2, 1-23

2, 6, + 27 DAYS

TYPE OF BREAK

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	AGGREGATE BROKEN THROUGH FRACTURE
MC-77A	2"×2"	12-29	3,200 LBS	N/A	3 DAYS	2	N/A
MC-78A	2"×2"	12-29	3,250			2	
MC-77B	2"×2"	1-2	3,250 LBS	N/A	7 DAYS	1	N/A
MC-78B	2"×2"	1-2	3,855			2	
MC-77C	2"×2"	1-23	14,000	N/A	28 DAYS	2	N/A
MC-79C	2"×2"	1-23	12,500	N/A	28 DAYS	2	N/A

807 P.S.I. 3 DAYS

1,388 LBS PER SQ INCH AT 7 DAYS 3063 LBS PER SQ INCH AT 28 DAYS

I Bysile RA Cool

12/29 1/23

1/2

DATE 12-22-02

LOCATION OF POUR: CONTROL ROOM BATT. ROOMS EL. 25'

ACTIVE ... 2"×2" CUBES ... 1800

REPORT ON ... TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN ...

SUB3-1

SHOREHAM, N.Y.

11600.50

R. FITZGERALD

MC 75 & 76 A-C

BATT. RMS

12-24-75

1:00 PM

CLOUDY

35°

57°

N/A

N/A

N/A

N/A

3 MIN

N/A

AT POINT OF PLACEMENT

N/A

N/A

N/A PERCENT

WET BURLAP

1 DAY

N/A

2500 LBS PER SQ IN AT 28 DAYS

M3/CONTRACTOR

LOCATION OF CONCRETE PLACEMENT

CONTROL ROOM - BATT. RMS ELV. 25'

COARSE INFORMATION ON EITHER A OR B AS APPLICABLE				
N/A	N/A GALS	N/A LBS	N/A GALS	WATER ADDED 15 GALS
TOTAL WATER CONTAINED 15 GALS	N/A LBS	N/A LBS	WATER USED N/A GALS	
QUANTITY OF CEMENT 2 BAGS	YIELD N/A	CEMENT PER CU YD N/A BAGS	WATER-CEMENT RATIO N/A	AIR ENTRAINING AGENT N/A; SLUMP N/A

REMARKS

BATCHING OF MORTAR BY VOLUME

WATER REDUCING AGENT N/A

N/A LBS

LONE STAR

II DARK

N/A

SUFFOLK MINING

N/A

FINE N/A COARSE N/A

N/A

REMARKS

FINE AGG. & WATER WTS. APPROX.

BRAND OF WATER REDUCING AGENT N/A

TESTING LABORATORY S+W Q.C. Lab

LOCATION Shoreham, N.Y.

DATE RECEIVED 12-25-75

CONDITION OF SPECIMENS GOOD

DATE OF TESTS 12-27, 12-31 + 1-21

DAYS OF CURING IN LABORATORY 2, 6, +27 DAYS

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
MC-75A	2" x 2"	12-27	6,700 LBS	N/A	3 DAYS	3	N/A
MC-76A	2" x 2"	12-27	6,650			3	
MC-75B	2" x 2"	12-31	11,800 LBS	N/A	7 DAYS	2	N/A
MC-76B	2" x 2"	12-31	11,400			3	
MC 75C	2" x 2"	1-21	21,300	N/A	28 DAYS	2	N/A
MC 76-C	2" x 2"	1-21	21,250	N/A	28 DAYS	3	N/A

AVERAGE 1684 / 2,900 PSI LBS PER SQ INCH AT 3 DAYS / 7 DAYS

AVERAGE 5319 LBS PER SQ INCH AT 28 DAYS

REMARKS

SIGNED L. Byrda L. Byrda L. Byrda FOR TESTING LAB

DATE 12-27-75 12-31-75 1-21-75

FTE #2-22-02

3.5 Arrows

S & W ... ENGINEERING CORPORATION

SNPS-1 | Shoreham, N.Y. | 11600.50
Vernon | R. Fitzgerald | MC-73/74 A-C | Batt. Rms.
12-23-75 | 9:30 | Clear | 27 | Mortar 52

N/A | N/A | N/A | N/A
3 | N/A
☒ AT POINT OF PLACEMENT
N/A | N/A | N/A | WET BURLAP | 1
N/A | 1800 LBS PER SQ IN AT 28 DAYS | AE/CONTRACTOR

LOCATION OF CONCRETE PLACEMENT

CONTROL ROOM - BATT. RMS. ELV. 5'

N/A | N/A | N/A | 15 GALS | 15/2 GALS
N/A | N/A | N/A
2 BAGS | N/A | N/A | N/A | N/A | N/A

REMARKS

BATCHING OF MORTAR BY VOLUME | N/A | N/A

LONE STAR | II DARK | N/A | SPEC. MIXING
N/A | N/A | N/A | N/A

REMARKS

FINE AGG. + WATER WTS. APPOX | N/A

S+W Q.C. LAB | Shoreham N.Y. | 12-24-75
GOOD | 12-26, 12-30 + 1-20 | 2, 1 + 27 DAYS

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
MC-73A	2"x2"	12-26	9,400 LBS	N/A	3 DAYS	3	
MC-74A	2"x2"	12-26	9,450			3	
MC-73B	2"x2"	12-30	9,200 LBS	N/A	7 DAYS	3	
MC-74B	2"x2"	12-30	13,700			2	N
MC-73C	2"x2"	1-20	20,050	N/A	28 DAYS	2	A
MC-74C	2"x2"	1-20	21,400	N/A	28 DAYS	2	

2357 / 2,925 P.S.I. 3 DAYS / 7 DAYS | 5182 LBS PER SQ INCH AT 28 DAYS

J. Bujada J. Bujada L. Bujada

DATE 12-26-75 12-30-75 1-20-76

NTE #2-22-02 S. S. Pom...

SNPS-1

Shoreham N.Y.

11600.50

A. Thompson

12-22-75

M.C. 71472 A-C

BATT. RMS

1:45

SNOW

31

57

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

WET CURING

1200 LBS PER SQ IN AT 28 DAYS

AS / CONTRACTOR

CONTROL ROOM - BATT. RMS ELV 25'

N/A

N/A

N/A

15

15 1/2

N/A

N/A

N/A

2 BAGS

N/A

N/A

N/A

N/A

N/A

BATCHING OF MORTAR BY VOLUME

N/A

N/A

LONE STAR

II DARK

N/A

Suffolk Mixing

N/A

N/A

N/A

N/A

FINE AGG + WATER WTS. APPROX

N/A

S+W Q.C. LAB

Shoreham NY

GOOD

12-23-75

12-26, 12-29 + 1-19

3, 6 + 27 DAYS

1 2 3 4 5 6 7

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	AGGREGATE BROKEN THROUGH FRACTURE
MC-71 A	2" x 2"	12-26	7,100 LBS	N/A	4 DAYS	3	N/A
MC-72 A	2" x 2"	12-26	6,650	N/A	4 DAYS	3	N/A
MC-71 B	2" x 2"	12-29	8,950 LBS	N/A	7 DAYS	2	N/A
MC-72 B	2" x 2"	12-29	9,050	N/A	7 DAYS	3	N/A
MC-71C	2" x 2"	1-19	17,300	N/A	28 DAYS	2	N/A
MC-72 C	2" x 2"	1-19	16450	N/A	28 DAYS	2	N/A

AVERAGE 1719 / 2,251 PSI LBS PER SQ INCH AT 4 DAYS / 7 DAYS; 4,219 LBS PER SQ INCH AT 28 DAYS

SIGNED S Bujola S Bujola FOR TESTING LAB

DATE 12-26-75 / 12-29-75 / 1-19-76

MTF 72-22-02

CONTROL ROOMS - BATT. ROOMS EL 25'

11600.50

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

PROJECT: SNPS-1 | JOB LOCATION: SHOREHAM N.Y. | J.O. NO.: 11600.50

SPECIMENS MADE AT: SOUTH SHORE MASONS | SPECIMENS TAKEN BY: A. THOMPSON CGG 620 | LOCATION SAMPLED: 4-F REACTOR

DATE SAMPLED: 10-4-79 | TIME: 2 00 | N/ | 73 | 71

READY MIXED CONCRETE: N/A | N/A | TRUCK CAPACITY: N/A | TRUCK NO.: N/A

REVOLUTIONS OF TRUCK MIXER OR AGITATOR: N/A | SAMPLE TAKEN: ✓ AT POINT OF PLACEMENT

METHOD OF PLACING: N/A | N/A | N/A | PLASTIC BAG | 1

METHOD OF PACKING SAMPLES FOR SHIPMENT: N/A | SPECIFIED DESIGN COMPRESSIVE: 1400 MASONRY 28 DAYS | SPECIFIED MIX: BY CONTRACTOR

LOCATION OF CONCRETE PLACEMENT: BOND BEAMS FOR WALLS ON EL 161 FROM APPROX. 53' TO 58' N E EXTENDING EAST & WEST OF ℄ | CAT I

FINE AGGREGATE: 3.3 CU FT | WATER CONTAINED: N/A | 1.2 CU FT | WATER CONTAINED: N/A | WATER ADDED: N/A | TOTAL WATER CONTAINED: N/A

N/A | N/A | N/A | AIR ENTRAINING ADMIXTURE: NONE | SLUMP: N/A

REMARKS: COURSE GROUT BATCHED BY VOLUME | WATER REDUCING AGENT: NONE | NONE

BRAND OF CEMENT: LONE STAR | TYPE OF CEMENT: II | # 89 | ROANOKE HARBOR

SOURCE OF COARSE AGGREGATE: ROANOKE HARBOR | SPECIFIC GRAVITY OF AGGREGATES: FINE N/A | COARSE N/A | BRAND OF AIR ENTRAINING ADMIXTURE: NONE

BATCHED 0.1 CU. FT. LIME - SOURCE FAWH CORP | BRAND OF WATER REDUCING AGENT: NONE

TESTED BY: S&W F.Q.C. SITE LAB | SHOREHAM, N.Y. | DATE RECEIVED: 10-5-79

CONDITION OF SPECIMENS: GOOD | DATE OF TESTS: 10-11-79, 11/1/79 | 6428

TYPE OF BREAK

1 2 3 4 5 6 7

NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN
7GB120 A B	3.05 in²	10-11-79	[illegible] LBS	145 145 LBS	7 DAYS	5	[illegible]
C D	12.29 in²	10-11-79 11/1/79	121,500 LBS	145 145 LBS	7 28 DAYS	5 5	12
E	12.330	11/1/79	135,000 LBS	145 LBS	28 DAYS	4	12
F	12.340	11/1/79	133,500 LBS	145 LBS	28 DAYS	6	12

7460 | 7 DAYS | 9308 | 28 DAYS

MTC 302-02
8-24-12
2-53-2-9

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1 | Shoreham N.Y. | 11600.50

Course Grout South Shore Masons — A. Thompson — Chaffey — CGC 500 A-F Reactor

12-7-78 10:00 Clear 46 51

N/A N/A N/A N/A

3 N/A ✓

N/A N/A N/A Plastic Bag 1

N/A 1500 28 By Contractor

LOCATION OF CONCRETE IN ELEMENT

Elevator Shaft - Bird Beams At El 34.5' 58' & 73'

COMPLETE INFORMATION ON EITHER A OR B AS APPLICABLE

3.3 cu. ft. N/A 2.2 cu. ft. N/A N/A N/A

1 N/A N/A N/A None N/A

REMARKS

Course Grout Batched By Volume None None

Lone Star II #89 Roanoke Marlboro

Roanoke Marlboro N/A N/A None

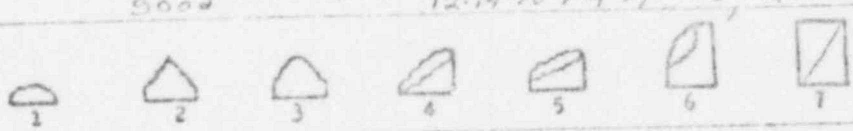
REMARKS

Batched 0.1 cu. ft. Lime - Source G&H Corson None

FQC Site Lab Shoreham NY 12-8-78

Good 12-14-78 1-4-79 6, 27

TYPE OF BREAK



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH FRACTURE
GC 500 A B	12.125" 12.8" 6.025	12-14-78	78,000 79,000	142 142	7	4 4	6 6
CGC 500 C D		12-14-78 1-4-79	73,000 151,000	142 141	7 28	4 3	6 12
GC 500 E F	6.080"	1-4-79	152500	140	28	7	13
CGC 500 F	12.165" 6.020"	1-4-79	149500	142	28	3	12

2595 7 5308 28

REMARKS

ATE 2-22-2
2-56-41
*plane ness 2-59-12
check 2-1-3

SIGNED [signature]

DATE 12-14-78 1-5-79

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1

Shoreham N.Y.

11600.50

H. Calabre

CGC 507 A-F

Reactor

12-16-78

1 20

N/A

62

N/A

N/A

N/A

N/A

3

N/A

Plastic Bag

N/A

N/A

N/A

N/A

1800 ... 28 ... By Contractor

N/A

Bond Beam In Elevator Shaft - A - EL 186'

COMPLETE INFORMATION ON EITHER (A) OR (B) AS APPLICABLE

3.3 CU FT

N/A

2.2 CU FT

N/A

N/A

N/A

1

N/A

N/A

N/A

None

N/A

Mixed On EL 112

Course Grout Batched By Volume

None

None

Lone Star

II

89

Roanoke Marboro

Roanoke Marboro

N/A

N/A

None

Batched 0.1 cu. ft. Lime - Source G&WH Const

None

FQC Site Lab

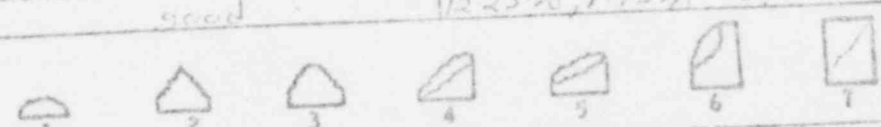
Shoreham NY

12-17-78

good

12-23-78, 1-13-79

6, 27



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	[illegible]
CGC507A CGC507B	12.173 6 13.219 8	12-23-78	85000 92500	144 143	7	5 6	7 8
CGC507C CGC507D	[illegible] 6.0[illegible]	12-23-78 1-13-79	85000 147500	143 145	7 28	5 7	7 12
CGC507E	6.033	1-13-79	149000	144	28	3	12
CGC507F	13.500 6.025	1-13-79	155000	144	28	4	12

3106 LBS PER SQ IN AT 7 DAYS

5099 LBS PER SQ IN AT 28 DAYS

MTE 2222

2-34-12

2-313

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1	Project/Location: SHOREHAM N.Y.	J.O. No.: 11600.50
Specimens made by: COURTER CONCRETE CO. (SHAFT MASON)	Specimens taken by: A. THOMPSON	CGC 509 A-F / Location sampled: REACTOR
Date sampled: 12-19-78	Time: 1 30 PM	N/A / 12
Ready mixed concrete: N/A	N/A	Truck capacity: N/A / N/A
3 min	N/A	Sample taken: ✓ at point of placement
Method of placing: N/A	Slump: N/A / Air: N/A	Cured: PLASTIC BAG 1 days
Method of packing sample for shipment: N/A	Specified design compression: 1800 PSI @ 28 DAYS	BY CONTRACTOR

Location of specimen placement: ELEVATOR SHAFT - BOND BEAM AT EL 170.5'

Complete information on either (a) or (b) as applicable	(a) Moist aggregate	Fine aggregate 3.3 CU FT.	Water contained N/A GALS	Coarse aggregate 2.2 CU FT. / Water contained N/A GALS	Water added N/A GALS / Total water contained N/A GALS
	(b) Surface dry aggregate	—	—	—	—

1 BAGS	N/A	N/A	N/A	NONE	N/A

Remarks: MIXED ON EL 112

COURSE GROUT BATCHED BY VOLUME — NONE — NONE

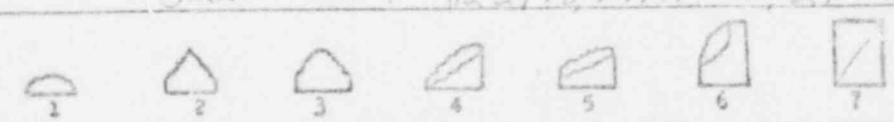
Brand of cement	Type of cement	Size of coarse aggregate	Source of fine aggregate
LONE STAR	II	# 89	ROANOKE MARBORO

Source of coarse aggregate	Specific gravity of aggregates		Brand of admixture
ROANOKE MARBORO	Fine N/A	Coarse N/A	NONE

Remarks: BATCHED 0.1 CU. FT. LIME - SOURCE GRN'D CORTEZ — NONE

Testing laboratory	Location	Date received
FOC Site Lab	Shoreham N.Y.	12-18-78
Condition of specimens: good	Date of tests: 12-24-78, 1-19-79	Days in curing in laboratory: 6, 27 days

Type of break



NO	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	% AGGREGATE BROKEN THROUGH
CC 509 A/B	12 × 6	12-24-78	97,050 / 94,500 LBS	143 / 144 LBS	7 DAYS	5 / 5	10 %
CC 509 C	[illegible]	12-24-78 / 1-19-79	95,500 / 157000 LBS	143 / 144 LBS	7 / 28 DAYS	5 / 7	10 / 12 %
CC 509 E	12 × 6.025	1-19-79	155000 LBS	145 LBS	28 DAYS	2	12 %
CC 509 F	12 × 6.030	1-19-79	163000 LBS	145 LBS	28 DAYS	2	12 %

Average: 3287 LBS PER SQ IN AT 7 DAYS — Average: 5559 LBS PER SQ IN AT 28 DAYS

Remarks:

MTE 2-22-2
2-22-12

* planeness check

[illegible signature]

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

THIS FORM MUST BE COMPLETELY FILLED IN AND MUST ACCOMPANY EACH TEST SPECIMEN SENT TO THE LABORATORY

SNPS-1	Shoreham N.Y.	11600.50

[illegible]	A. Thompson	FCC-1[illegible] R-F	Control Rm
7-1-76	12[illegible]	Cloudy	71
N/A	N/A	N/A	N/A
	N/A	At point of placement	
N/A	N/A	N/A	Wet Burlap 1 Day
N/A	12[illegible] 28 days	By Contractor	

LOCATION OF PLACEMENT

CR Bldg Computer Rm Sampled @ EL 50'

CONCRETE INFORMATION	45 cu ft	N/A	—	N/A	N/A	N/A
	—		—		—	
2 bags	N/A	N/A	N/A	—	N/A	

REMARKS

Mortar Batched By Volume

Lone Star	II	—	Mason Mix Inc
S&WH Corson	N/A	—	

REMARKS

Batched ½ cu ft Lime

TESTING LABORATORY	LOCATION	DATE RECEIVED
S&W Q.C. LAB	Shoreham N.Y.	7-2-76
CONDITION OF SPECIMENS		DAYS OF CURING IN LABORATORY
Good	7-8 + 7-29	6+27 days

TYPE OF BREAK

NO.	SIZE	TEST DATE	BREAKING LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	[illegible]
[illegible]	2" x 2"	7-8	17,[illegible]		7 days	7 & [illegible]	
[illegible]	[illegible]	7-8	[illegible]		7 days	2	
[illegible]	2 x 2"	7-8	18,[illegible]		7 days	2	
-[illegible]	2 x 2"	7-[illegible]	18,[illegible]	N.	28	2	N.
-[illegible]	2 x 2"	7-29	18,150	A.	28	2	A.
-[illegible]	2 x 2"	7-29	18,000		28	3	

3,[illegible] 7 [illegible] 4540 [illegible] 28

REMARKS

L. [illegible]

[illegible]

DATE 7-8-76

7-29-76

MTE#2-22-02 [illegible] 8-3-76

REPORT ON COMPRESSIVE
TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

SNPS-1 | SHOREHAM, N.Y. | 11600.50

REPAIR OF TOOTH FOR GROUT

7-27-76 | 9:20 | CLEAR | 77

N/A | N/A | N/A | N/A

3 | N/A

WET BURLAP 1 DAY

N/A | N/A | N/A

N/A | 1800 ... 28 ... BY CONTRACTOR

PLACING OF GROUT

DOOR JAMB AT EL 63 BETW 12-16½ FROM C.L. 14' N OF C

3.2 CU FT | N/A | N/A | N/A | N/A | N/A

1 | N/A | N/A | N/A | N/A

FINE GROUT BATCHED BY VOLUME

LONE STAR | II | PENVOKE-MARBORO

LIME
C.W.H. CORSON | N/A

BATCHED 1 CU FT LIME

S&W QC LAB | SHOREHAM, NY | 7-28-76

GOOD | 8-3 8-24 | 7 & 28

TYPE OF BREAK

NO.	SIZE	TEST DATE	TOTAL LOAD	WEIGHT PER CUBIC FOOT	AGE AT TEST	TYPE OF BREAK	
1650A	2X2	8-3	14000	N/A	7 days	2	N/A
1650	2X2	8-3	14...		7	2	
1650	2X2	8-3			7 days	3	
1650	2X2	8-24			28	6	
1650	2X2	8-24			28	6	
1650	2X2	8-24			28	4	

3850 ... 7 ... 5450 ... 28

Sam W. Crane

NOTED AUG 27 1976

8-3-76

8-24-76

MTT 2-22-02

REPORT ON COMPRESSIVE TESTS OF CONCRETE

STONE & WEBSTER ENGINEERING CORPORATION

[illegible] Shoreham N.Y. [illegible]

Fine Grout — A. Thompson

12-31-76 11 Clear 32

N/A N/A N/A N/A

3 N/A

N/A N/A N/A 1 Day

N/A 1500 28 By Contractor

of Grout

CR EL 25 East Wall of Corridor 8

33 cu ft N/A N/A N/A N/A N/A

1 N/A N/A N/A N/A

Fine Grout Batched By Volume

Lone Star II

Cylinder Series N/A

Batched Lea ft. Lime

S&W QC Lab Shoreham N.Y. 12-31-76

Good 1-7 & 1-28 7 & 28

[illegible]	2x6	1-7	[illegible]	U	7	2	U
[illegible]	2x6	1-7	[illegible]		7	2	
2x6	2x2	1-7	[illegible]		7	2	
[illegible]	2x6	1-28	12,?00	A	28	2	A
2x6E	2x2	1-28	11,400		28	2	
2x6F	2x2	1-28	12,400		28	2	

1507 7 2183 28

[illegible]

[illegible]

1-7-77

1-20-77

[illegible] 2-25-08