HEXCEL mci division

99900893

JUNE 6, 1985

GARY G. ZECH, CHIEF VENDOR
PROGRAM BRANCH - DIVISION
OF QUALITY ASSURANCE, VENDOR,
AND TECHNICAL TRAINING CENTER
PROGRAMS OFFICE OF INSPECTION
AND ENFORCEMENT
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555

DEAR MR. ZECH:

IN ANTICIPATION THAT THERE MAY BE SOME QUESTIONS CONCERNING OUR PART 21 REPORT WITHIN THE N.R.C. AFTER REVIEWING THE REPORT OF THE AUDIT MADE AT HEXCEL/MCI IN NOVEMBER, 1984, CONCERNING SOME APPARENT SYSTEM DEVIATIONS DETECTED DURING THE PERIOD 1978-1980, WE HAVE CAREFULLY REEVALUATED THE INFORMATION REPORTED IN THIS PART 21 REPORT. WE HAVE ALSO TESTED NEW SAMPLES INCLUDING THOSE RETURNED TO US FROM ILLINOIS POWER PLUS ADDITIONAL MATERIALS SUPPLIED BY COMMONWEALTH EDISON. ALL THESE SAMPLES TESTED WERE FROM MATERIALS MADE DURING THIS PERIOD. IN ADDITION, WE HAVE REVIEWED REPORTS FROM CUSTOMERS QUALITY REPRESENTATIVES WHO AUDITED OUR OPERATIONS DURING THIS PERIOD AND IN PARTICULAR THOSE CUSTOMERS WHO SPECIFICALLY AUDITED THOSE OPERATIONS CONCERNED WITH THE MANUFACTURE AND TESTING OF SOLARIB^{R} ENERGY ABSORBING MATERIALS (EAM).

THESE NEW SAMPLES AND ALL OTHER SAMPLES TESTED FOR THE PERIOD 1978-80, SAVE FOR THOSE FEW PIECES WHICH WERE FABRICATED FROM TWO BLOCKS WHICH HAD BEEN REJECTED BUT SUBSEQUENTLY INADVERTENTLY SHIPPED (WHICH LED TO OUR INITIAL REPORT), HAVE BEEN FOUND TO MEET THE ORIGINAL SPECIFICATIONS. IN ADDITION, THE INDEPENDENT AUDIT REPORTS FOR THIS SAME PERIOD CONFIRM THAT THE SYSTEMS IN PLACE DURING THIS PERIOD WERE CONSIDERED SATISFACTORY AND APPROPRIATE FOR THE MANUFACTURE OF THESE MATERIALS CONFIRMING WE BELIEVE THAT THE SYSTEM IN TOTAL WAS SATISFACTORY AND EFFECTIVE.

IE19 Add: Gary Zech
1/1

140 N. Orange Avenue, City of Industry, California 91744, (818) 961-9971

NOTHING WE HAVE SEEN IN OUR INITIAL REVIEW OR IN OUR SUBSEQUENT REEVALUATION OF MATERIALS MANUFACTURED DURING THE PERIOD IN QUESTION LEADS US TO BELIEVE THAT THERE SHOULD BE ANY SAFETY CONCERN FOR OTHER EAM UNITS OF HEXCEL/MCI MANUFACTURE IN USE.

SINCERELY,

HAROLD GRAPER

HG:MO

ATTACHMENTS: AUDIT REPORTS:
COMMONWEALTH EDISION DATED MARCH 7, 1979
PUBLIC SERVICE ELECTRIC & GAS CO. DATED SEPT. 5, 1980
CHICAGO BRIDGE & IRON CO. DATED FEB. 27, 1981

TEST RESULTS:
SAMPLES REPRESENTING 1978 MANUFACTURE
SAMPLES REPRESENTING 1979 MANUFACTURE
SAMPLES REPRESENTING 1980 MANUFACTURE

Commonwealth Edison
One First National Plaza, Chicago, Illinois
Address Reply to: Post Office Box 767
Chicago, Illinois 60690

March 7, 1978

Glenn Calvin
Quality Control Engineer
Metallurgical Consultants, Inc.
8100 East Slauson Avenue
Montebello, California 90640

Subject: Approval of Quality Assurance Program

RE: Quality Assurance Program of Metallurgical Consultants, Inc. latest revision G dated January 1977 and Technical Report No. 307 Addendum to the Metallurgical Consultants, Inc. Quality Control Manual, revision G for LaSalle County Spec. J-2985

Gentlemen:

The Commonwealth Edison Company has reviewed the referenced revision to your Q.A. Program and find them to be in agreement with the intent of 10CFR50, Appendix B. The accepted Quality Assurance Program for the Commonwealth Edison consists of:

Quality Control Manual of Metallurgical Consultants, Inc. latest revision G dated January 1977 and Technical Report No.307 Addendum to the Metallurgical Consultants, Inc. Quality Control Manual, Revision G.

This acceptance is based on Commonwealth Edison's approval of certain quality assurance commitments contained in the above referenced documents and does not include approval of specific Quality Control procedures, instructions or any technical data which may be contained in those documents.

If you have any questions in this matter, please contact Mr. L.A. Ellis, Station Nuclear Engineering Department, Quality Control Group at (312)294-8570.

Sincerely,

J. E Rohde

J.E. Rohde
Quality Control Supervisor

LAE/ljs
ccL W.J. Shewski/G.F. Marcus
R.J. Kasenga

PSE&G

Public Service Electric and Gas Company 80 Park Place Newark, N.J. 07101 Phone 201/430-7000

September 5, 1980
OUR REF: 863122

Mr. Glenn C. Calvin Jr.
The Hexcel MCI Division
8100 East Slauson Avenue
Montebello, California 90640

Dear Mr. Calvin:

QUALITY ASSURANCE MANUAL REVIEW
NO. 1 AND 2 UNITS
SALEM GENERATING STATION

We have reviewed your Quality Assurance Manual No. 17 dated June 30, 1978, and consider it in compliance with the applicable requirements of 10CFR50, Appendix B, and ANSI N45.2.

The above conclusion does not in any manner, expressed or implied, relieve The Hexcel Company of any existing or future committed responsibilities.

Please use the above reference in any response to this letter.

Very truly yours,

E. N. Schwalje
Manager - Quality Assurance
Engineering and Construction

SCM:jb

HL12

Chicago Bridge & Iron Company

8900 Fairbanks North Houston Road
P O Box 40066
Houston, Texas 77040

713 466 7581

February 27, 1981

Hexcel-MCI Division
8100 East Slauson Ave.
Montebello, Calif. 90640

RECEIVED
MAR 2 1981

Attn: John J. Lawless, Jr.

Gentlemen:

We are pleased to inform you that, as a result of the Feb. 19 resurvey of your facility by Mr. S. L. Huffaker and this writer, Chicago Bridge & Iron Company continues to consider you qualified as a Manufacturer of crushable honeycomb material for non-Code nuclear applications under the current requirements of ANSI N45.2.

Your Quality Assurance Manual S/N 12 dated June 30, 1978, was returned and your Manual S/N 40, Revision A, dated 9/2/80 was received. The revised Manual has since been reviewed as a part of the resurvey, Chicago Bridge & Iron Company accepts this Manual revision and appreciates your maintaining this copy on a controlled status.

Thank you for the courtesies extended to the resurvey team.

Very truly yours,

CHICAGO BRIDGE & IRON CO.

James E. Burch

J. E. Burch
Vendor QA Coordinator

JEB:mks

cc: R. S. Preston
Hexcel-MCI Division
8100 East Slauson Ave.
Montebello, Calif. 90640

cc: S. L. Huffaker - Salt Lake CQA
Ron Bacher - Salt Lake Purch.

CONTROLLED COPY NO. 4

1778 MANUFACTURE

TABLE - 1

SPECIMEN/TEST I.D.	SOURCE OF SPECIMEN		PRODUCTION TEST	PHASE II TEST
	RESTRAINT I.D.	CORE BLOCK	ADCS (PSI) AT 150°F 815 FT/SEC	ADCS (PSI) AT 120°F 20 FT/SEC
2FWR-1-A	2FWR-1	SK 322	5970	5250
2FWR-1-B	"			5340
2FWR-1-C	"			5790
2FWR-3-L-A	2FWR-3L	SK 245	6570	6660
2FWR-3-L-B	"			6510
2FWR-9-BL-BY-A	2FWR-9-BL-BY	SK 271	7674	7330
2FWR-9-BL-BY-B	"	SK 487	6162	7540
FWR-31-BR-A	FWR-31-BR	SK 243	6095	5380
FWR-31-BR-B	"			5800
FWR-31-BR-C	"			5950
2MS-P-26R-BY-E	2MS-P-26R-BY	SK 326	A 5430	5980
2MS-P-26R-BY-F	"		B 5540	5470
2MS-P-26R-BY-G	"		C 5410	5190
2MSR-9R-BR-A	2MSR-9R-BR	SK 212	5610	5150
2MSR-9R-BR-B	"			6000
2MSR-9R-BR-C	"			5660
2MSR-9R-BR-D	"			5840
2RC-2-4-A	2RC-2-4	SK 208	5685	4720
2RC-2-4-B	"			5440
1RC3-4-BR-A	1RC3-4-BR	(SK 212)	5610	5190
1RC3-4-BR-B	"	(SK 323)	5500	6050
1RC3-4-BR-C	"	SK212/323	5610/5500	5660
RC3-4-A	RC3-4	SK212/323	5610/5500	5850
RC3-4-B	"			5720
RC3-4-C	"			5490
RC3-4-D	"			5070
RC3-4-E	"			5650
RC3-4-F	"			5460
2RC4-4-A	2RC4-4	SK 206	5897	5500
2RC4-4-B	"			5470
2RY-2-A	2RY-2	SK 331	6440	5710
2RY-2-B	"			6200
2RY-3-L-A	2RY-3-L	SK 312	6160	5880
2RY-3-L-B	"			6260
2RY-3-L-C	"			6230
2RY-4-BR-A	2RY-4-BR	SK 311	6160	5810
2RY-4-BR-B	"			6210
2RY-4-BR-C	"			6440
2RY-6-BR-A	2RY-6-BR	SK 247	6403	5600
2RY-6-BR-B	"			5940
2RY-8-BR-A	2RY-8-BR	SK 332	6280	6150
2RY-8-BR-B	"			6170
2RY-8-BR-C	"			6360

TABLE - 1

SPECIMEN/TEST	SOURCE OF SPECIMEN		PRODUCTION TEST	PHASE II TEST
I.D.	RESTRAINT I.D.	CORE BLOCK	ADCS (PSI) AT 150°F 815 FT/SEC	ADCS (PSI) AT 120°F 20 FT/SEC
RY5-R-A	RY5-R	SK 320	6120	5610
RY5-R-B	"	SK 322	5970	5840
RY5-R-C	"			5890
RY5-R-D	"			6020
RY5-R-E	"			5800
RY5-R-F	"			5810
RY5-R-G	"			5070
RY5-R-H	"			5910
RY5-R-I	"			5700
RY5-L-A	RY5-L	SK 476 — 1979 MF4'	6160/5540	6350
RY5-L-B	"	SK 339	5680/6010/5670	6100
RY5-L-C	"	SK 273	6620/6370	6290
RY5-L-D	"			6950
RY5-L-E	"			6620
RY5-L-F	"			6310
RY5-L-G	"			6930
RY5-L-H	"			6810
RY5-L-I	"			7010
RY5-L-J	"			5880
RY5-L-K	"			6250
RY5-L-L	"			6700
RY5-L-M	"			6540
1SI3R-640A-L-BR	1SI3R-640A-L-BR	SK 228	5720	7270
2SI4R-15B-L	2SI4R-15B-L	SK 231	6324	6790

NOTE: THE PREFIX FOR THE RESTRAINT NO. DESIGNATES UNIT NO. AND THE SUFFIX DESIGNATES THE STATION (BR FOR BRAIDWOOD & BY FOR BYRON).

EX: RESTRAINT I.D.: 2MS-P-26R-BR
UNIT #2
STATION: BRAIDWOOD
RESTRAINT #MS-P-26R

1978 MANUFACTURE

HEXCEL/MCI PROPRIETARY INFORMATION

SUMMARY OF SK-127 TEST RESULTS

Specimen #	70% Crush Dynamic w/computor 1984 method	70% Crush Dynamic old computing method	40% Crush Dynamic 1978 method	Static
SK-127-1				4603
-2	6363	6619		
-3	5835	6648		
-4				Lost Trace
-5	6289	6512		
-6				5270
-7			6218	
-8	6122	6408		
-9	6183	6383		
-10	5946	6335		
-11				5340
-12	6146	6399		
-13	6071	6398		
-14			5987	
-15	5509	6442		
-16			6234	
-17	6015	6380		
-18				5222
Averages	6047.9	6452	6146	5108