

Demand Response RFP Questions and Answers

What are your PECO account number(s)? Would you post an LOA so we can request interval data from PECO, or post it online if you already have it?

ANSWER: Please contact Bob Lester at 215-418-4843, he will sign an authorization letter if the proposer has a standard form they use.

What is your current PLC? What was your peak usage over the last 12 months? What do you envision your peak usage to be now that the expansion is complete?

ANSWER: The PLC is in the RFP: 4615

How much curtailable load do you believe to be available?

ANSWER: We do not know, this should be a part of your unique approach/pricing model this question addresses the format for the RFP response. Inside a single box, should there be the following?:

- a. A single Transmittal Letter
- b. Ten large sealed envelopes, and inside each one would be
 - i. A sealed "Technical" envelope
 - ii. A sealed "Affirmative Action" envelope
 - iii. A sealed "Cost/Price" envelope

ANSWER: Yes

Please describe your electricity supply contract. Length of term, fixed price, etc.

ANSWER: Block and Index for one year to expire 12/31/12

What is your base cooling load (non-convention space/non-meeting room space)?

ANSWER: Approximately 1500 Tons

How much can we reduce the fan speed and raise the disch air setpoint?

ANSWER: Not during peak summer days

For the reg market, can we disable the compressors on the AHUs for up to 5 minutes? Can we also reduce fan speed?

ANSWER: No

Can we get the mechanical equipment schedule for the expansion and existing buildings. Can we get a copy of the BAS asbuilts? Can we get a copy of the mechanical dwgs for both systems?

ANSWER: We are putting the schedule together. As-builts and mechanical drawings can be provided to successful firm. There are too many drawings to address before proposals are due.

If no subcontractors are being used, is there any need to fill in Exhibit B?

ANSWER: Exhibit B should be completed

PENNSYLVANIA CONVENTION CENTER AUTHORITY

Answers to Questions submitted regarding the Demand Response RFP, April/May 2012

Question: Please provide mechanical schedule for new building which includes VFD information and run time of units.

Answer: Please refer to the information in the VFD SUMMARY REPORT

AIR HANDLING UNITS					TOTAL RUN HOURS
ITEM	EQUIPMENT ID	HP	VFD MANUFACTURER	SERIAL NO.	TO DATE (4/27/12)
1	AHU-1-SF-A	40	EATON - HVX04014AACBRB	12803005	5371
2	AHU-1-SF-B	40	EATON - HVX04014AACBRB	12802870	5371
3	AHU-1-RF-A	20	EATON - HVX02014B1CBP6	12802853	5371
4	AHU-1-RF-B	20	EATON - HVX02014B1CBP6	12802853	5371
5	AHU-2-SF-A	40	EATON - HVX04014AACBRB	12802863	4990
6	AHU-2-SF-B	40	EATON - HVX04014AACBRB	12803001	4990
7	AHU-2-RF-A	20	EATON - HVX02014B1CBP6	12802855	4990
8	AHU-2-RF-B	20	EATON - HVX02014B1CBP6	12802861	4990
9	AHU-3-SF	100	EATON - HVX10014AACBRB		3708
10	AHU-3-RF-A	25	EATON - HVX02514BICBP6	12802767	3708
11	AHU-3-RF-B	25	EATON - HVX02514BICBP6	12802769	3708
12	AHU-4-SF	100	EATON - HVX10014AACBRB	12802956	4997
13	AHU-4-RF	50	EATON - HVX05014N1CBP6	12802778	4997
14	AHU-5-SF	75	EATON - HVX07514AACBRB	12802678	5900
15	AHU-5-RF	40	EATON - HVX04014B1CBP6	12802783	5900
16	AHU-6-SF	75	EATON - HVX07514AACBRB	12802608	4401
17	AHU-6-RF	40	EATON - HVX04014B1CBP6	12802512	4401
18	AHU-7-SF	25	EATON - HVX02514AACBRB	12802896	4283
19	AHU-7-RF	10	EATON - HVX01014B1CBP6	12802858	4283
20	AHU-9-SF	40	EATON - HVX04014BACBRB	12805906	4484
21	AHU-9-RF	15	EATON - HVX01514BACBRA	12805909	4484
22	AHU-19-SF-A	50	EATON - HVX05014N1CBP6	12802774	3810
23	AHU-19-SF-B	50	EATON - HVX05014N1CBP6	12802771	3810
24	AHU-19-RF-A	30	EATON - HVX03014B1CBP6	12802781	3810
25	AHU-19-RF-B	30	EATON - HVX03014B1CBP6	12802780	3810
26	AHU-22-SF-A	50	EATON - HVX05014N1CBP6	12802912	3383
27	AHU-22-SF-B	50	EATON - HVX05014N1CBP6	12802911	3383
28	AHU-22-RF-A	30	EATON - HVX03014B1CBP6	12802860	3383
29	AHU-22-RF-B	30	EATON - HVX03014B1CBP6	12802865	3383
30	AHU-28-SF	100	EATON - HVX10014AACBRB	12802940	4420
31	AHU-28-RF-A	25	EATON - HVX02514B1CBP6	12802765	4420
32	AHU--28-RF-B	25	EATON - HVX02514B1CBP6	12802766	4420
33	AHU-29-SF	100	EATON - HVX10014AACBRB	12802941	4563
34	AHU-29-RF-A	25	EATON - HVX02514B1CBP6	12802764	4563
35	AHU-29-RF-B	25	EATON - HVX02514B1CBP6	12802762	4563
36	AHU-30-SF	30	EATON - HVX03014AACBRB	12802698	3848
37	AHU-30-RF	15	EATON - HVX01514B1CBP6	12802859	3848
38	AHU-31-SF	30	EATON - HVX03014AACBRB	12802649	4154
38	AHU-31-RF	15	EATON - HVX01514B1CBP6	12802653	4154
39	AHU-33-SF	7.5	EATON - HVX00714B1CBP6	128103448	5582
40	AHU-33-RF	5	EATON - HVX00514B1CBP6	12802650	5582

**PENNSYLVANIA CONVENTION CENTER AUTHORITY
PCCA ANNEX
111 N. BROAD STREET
PHILADELPHIA PA 19107**

VFD SUMMARY REPORT - CONT.						TOTAL RUN HOURS
						TO DATE (4/27/12)
EXHAUST FANS						
ITEM	EQUIPMENT ID	HP	VFD MANUFACTURER	SERIAL NO.		
1	EF-5	25	EATON - HVX02514AACBRB	12803021		154
2	EF-6	25	EATON - HVX02514AACBRB	12803057		402
3	EF-7	25	EATON - HVX02514AACBRB	12803017		635
4	EF-8	25	EATON - HVX02514AACBRB	12803047		273
5	EF-9	25	EATON - HVX02514AACBRB	12803067		729
6	EF-10	25	EATON - HVX02514AACBRB	12803000		831
7	EF-11	25	EATON - HVX02514AACBRB	12803062		589
8	EF-12	25	EATON - HVX02514AACBRB	12802998		798
9	EF-13	15	EATON - HVX01514AACBRB	12803051		799
10	EF-14	15	EATON - HVX01514AACBRB	12802694		579
11	EF-15	15	EATON - HVX01514AACBRB	12802688		997
12	EF-16	15	EATON - HVX01514AACBRB	12802696		896
13	EF-17	15	EATON - HVX01514AACBRB	12802705		280
14	EF-18	15	EATON - HVX01514AACBRB	12802697		409
15	EF-19	15	EATON - HVX01514AACBRB	12802703		740
16	EF-20	15	EATON - HVX01514AACBRB	12802701		502
17	SPF-5	40	ABB SERIES ACH550	2105100073		NA
18	SPF-6	40	ABB SERIES ACH550	2105100069		NA
DOMESTIC WATER & COOLING TOWER P						
ITEM	EQUIPMENT ID	HP	VFD MANUFACTURER	SERIAL NO.		
1	DWBP-1	25	ABB SERIES ACH550	2093801778		
		25	ABB SERIES ACH550	2093801781		
		25	ABB SERIES ACH550	2093801757		
2	CTBP-1	30	ABB SERIES ACH550	2103300097		
		30	ABB SERIES ACH550	2093802207		
		30	ABB SERIES ACH550	2093802212		

AIR HANDLING UNIT SCHEDULE

SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY TOTAL CFM	MIN. OA CFM	TSP (IN / WG)	OV (FPM)	RPM	TYPE	CLASS	VOLUME CONTROL	MOTOR	COOLING TONS	CFM	EAT (DB / WB)	LAT (DB / WB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN / WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT / WG)	PIPE SIZE (IN)	HEATING	COIL	(PRE-HEAT)	HEAT	MBH	CFM	EAT (DB)	LAT (DB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN / WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT / WG)	PIPE SIZE (IN)	PRE-FILTER	TYPE	% EFFICIENCY	SP - INT./CHANGE (INWG)	FINAL FILTER	TYPE	% EFFICIENCY	SP - INT./CHANGE (INWG)	PHYSICAL DATA	MAX. UNIT WEIGHT (LB)	MAX. UNIT SIZE (W X H X L)	REMARKS
AHU-8	Fan Room - 2 Elev. 37	W. Arch St. Concourse	Pkg'd Horiz. Draw Thru	NA	20,700	2,400	6.00	1511	1891	DWDI Centrifugal Airtoll	II	Inlet Vanes	BHP 33.7 MHP 40 RPM 1750 ODP	49	20,700	80.5 / 68.5	58.0 / 57.5	511	5	0.55	45	80	74	14.8	14.8	20,700	62.0	76.0	511	1	0.05	175	155	32	1.8	12" Cartridge	60	0.50 / 1.00	8,800	8'-10" x 5'-8" x 15'-8"	Yok CS 402 9H												
AHU-5	Fan Room - 1A Elev. 37	Mig Rms 10B thru 112	Pkg'd Horiz. Draw Thru	NA	18,100	19,100	6.00	1394	1832	DWDI Centrifugal Airtoll	II	Inlet Vanes	BHP 30.2 MHP 40 RPM 1750 ODP	117	18,100	90.0 / 74.0	52.0 / 51.5	472	10	0.98	45	60	76	14.5	14.5	18,100	14.0	52.0	472	1	0.05	175	155	32	1.8	12" Cartridge	60	0.50 / 1.00	8,800	8'-10" x 5'-8" x 15'-8"	Yok CS 402 9H												
AHU-4	Fan Room - 1A Elev. 37	Mig Rm 10B Lecture 114	Pkg'd Horiz. Draw Thru	NA	22,300	22,300	6.00	1360	1515	DWDI Centrifugal Airtoll	II	Inlet Vanes	BHP 35.5 MHP 40 RPM 1750 ODP	137	22,300	90.0 / 74.0	52.0 / 51.1	466	10	0.96	45	60	76	14.1	14.1	22,300	14.0	52.5	466	1	0.05	176	155	32	1.8	12" Cartridge	60	0.50 / 1.00	9,800	8'-10" x 6'-8" x 17'-4"	Yok CS 400 9H												

Schedule S15775 - Air Handling Units 2

HVAC SCHEDULES

10/04/90

15920 - 26

TJSA&A 8803
VG 5134
P&W 88024

AIR HANDLING UNIT SCHEDULE

SCHEDULE	SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY	FAN(S)	VOLUME CONTROL	MOTOR	COOLING	COIL	HEATING	COIL	(PRE-HEAT)	HEAT	FACE VEL. (FPM)	NO. ROWS	MAX. SP. (IN/WG)	EWT. (DEG. F)	LWT. (DEG. F)	GPM	PD (FT/WG)	PIPE SIZE (IN)	PRE-FILTER	FINAL-FILTER	PHYSICAL	DATA	REMARKS				
AHU-15	Fan Room - 5, Elev. 89	W Arch St Cong. Mfg Bldg	Exhibt Hall A	Cust. Rooftop Blow Thru	TE-5	18,800	TE-5	None	BHP 35.5 MHP 40 RPM 1750 ODP	480-3-60	NA	248	18,800	62.0	74.0	484	1	0.05	175	155	25	1.2	2 1/2"	2" Throwaway	30	0.15 / 0.30	12" Cartridge	60	0.50 / 1.00	32,250	13'-0" x 12'-0" x 32'-0"	Performance for reheat coil.
AHU-14B (cont.)	Pool, Elev. 76	Exhibt Hall A	Exhibt Hall A	Cust. Rooftop Blow Thru	TE-5	54,550	TE-5	None	BHP 88.3 MHP 75 RPM 1750 ODP	480-3-60	NA	458	54,550	48.4	58.0	850	1	0.11	175	155	48	1.3	12 1/2"	2" Throwaway	30	0.15 / 0.30	12" Cartridge	60	0.50 / 1.00	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterm. Room
AHU-14B	Pool, Elev. 76	Exhibt Hall A	Exhibt Hall A	Cust. Rooftop Blow Thru	TE-5	54,550	TE-5	None	BHP 88.3 MHP 75 RPM 1750 ODP	480-3-60	NA	458	54,550	48.4	58.0	850	1	0.11	175	155	48	1.3	12 1/2"	2" Throwaway	30	0.15 / 0.30	12" Cartridge	60	0.50 / 1.00	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterm. Room
AHU-15	Fan Room - 5, Elev. 89	W Arch St Cong. Mfg Bldg	Exhibt Hall A	Cust. Rooftop Blow Thru	TE-5	18,800	TE-5	Inlet Vanes	BHP 35.5 MHP 40 RPM 1750 ODP	480-3-60	NA	248	18,800	62.0	74.0	484	1	0.05	175	155	25	1.2	2 1/2"	2" Throwaway	30	0.15 / 0.30	12" Cartridge	60	0.50 / 1.00	32,250	13'-0" x 12'-0" x 32'-0"	Performance for reheat coil.



Schedule S15775 - Air Handling Units 12

HVAC SCHEDULES
10/04/90

HVAC SCHEDULES
 10/04/90

Schedule S15775 - Air Handling Units 13

AIR HANDLING UNIT SCHEDULE		AHU-18		AHU-17		AHU-16	
SYMBOL	AHU-18	AHU-17	AHU-16	AHU-18	AHU-17	AHU-16	AHU-16
LOCATION	Fan Room - 7, Elev. B9	Fan Room - 8, Elev. B9	Fan Room - 8, Elev. B9	Fan Room - 7, Elev. B9	Fan Room - 8, Elev. B9	Fan Room - 8, Elev. B9	Fan Room - 8, Elev. B9
SERVICE	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms	E Arch St Comp, Mig Fms
TYPE	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu	Pkg'd Horiz Draw Trxu
ASSOCIATED FANS	TE-3, 7	TE-2	NA	TE-3, 7	TE-2	NA	TE-3, 7
SUPPLY TOTAL CFM	18,800	17,300	18,400	18,800	17,300	18,400	18,800
MIN. OA CFM	8,800	3,700	2,400	8,800	3,700	2,400	8,800
TSP (IN/WG)	7.50	7.50	7.50	7.50	7.50	7.50	7.50
OV (FPM)	1487	1531	1343	1487	1531	1343	1487
RPM	2228	2262	1943	2228	2262	1943	2228
TYPE	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil	DWDI Centrifugal Ailhoil
CLASS	II	II	II	II	II	II	II
VOLUME CONTROL	Inlet Vanes	Inlet Vanes	Inlet Vanes	Inlet Vanes	Inlet Vanes	Inlet Vanes	Inlet Vanes
BHP	32.0	33.5	34.8	32.0	33.5	34.8	32.0
MHP	40	40	40	40	40	40	40
RPM	1750	1750	1750	1750	1750	1750	1750
TYPE	ODP	ODP	ODP	ODP	ODP	ODP	ODP
V-PH-HZ	480-3-60	480-3-60	480-3-60	480-3-60	480-3-60	480-3-60	480-3-60
COOLING TONS	91	68	66	91	68	66	91
CFM	18,000	17,300	18,400	18,000	17,300	18,400	18,000
EAT (DB/WB)	94.5/73.0	94.3/71.2	93.0/70.5	94.5/73.0	94.3/71.2	93.0/70.5	94.5/73.0
LAT (DB/WB)	54.0/53.5	57.0/56.5	58.0/57.5	54.0/53.5	57.0/56.5	58.0/57.5	54.0/53.5
FACE VEL. (FPM)	509	504	454	509	504	454	509
NO. ROWS	8	8	5	8	8	5	8
MAX SP (IN/WG)	0.89	0.66	0.47	0.89	0.66	0.47	0.89
EWT (DEG F)	80	80	80	80	80	80	80
LWT (DEG F)	137	104	89	137	104	89	137
PD (FT/WG)	17.1	6.2	17.8	17.1	6.2	17.8	17.1
PIPE SIZE (IN)	4	3	4	4	3	4	4
HEATING MBH	293/325	281	248	293/325	281	248	293/325
CFM	18,800/18,800	17,300	18,400	18,800/18,800	17,300	18,400	18,800/18,800
EAT (DB)	39.2/62.0	62.0	62.0	39.2/62.0	62.0	62.0	39.2/62.0
LAT (DB)	64.0/80.0	77.0	74.0	64.0/80.0	77.0	74.0	64.0/80.0
FACE VEL. (FPM)	509	524	454	509	524	454	509
NO. ROWS	1	1	1	1	1	1	1
MAX SP (IN/WG)	0.05	0.06	0.04	0.05	0.06	0.04	0.05
EWT (DEG F)	176/175	175	175	176/175	175	175	176/175
LWT (DEG F)	185/185	185	185	185/185	185	185	185/185
GPM	28/33	28	28	28/33	28	28	28/33
PD (FT/WG)	2.5	1.8	1.2	2.5	1.8	1.2	2.5
PIPE SIZE (IN)	2	2	2	2	2	2	2
TYPE	2" Throwaway	2" Throwaway	2" Throwaway	2" Throwaway	2" Throwaway	2" Throwaway	2" Throwaway
% EFFICIENCY	30	30	30	30	30	30	30
SP - INT./CHANGE (INWG)	0.15/0.30	0.15/0.30	0.15/0.30	0.15/0.30	0.15/0.30	0.15/0.30	0.15/0.30
FINAL TYPE	12" Cartridge	12" Cartridge	12" Cartridge	12" Cartridge	12" Cartridge	12" Cartridge	12" Cartridge
% EFFICIENCY	80	80	80	80	80	80	80
SP - INT./CHANGE (INWG)	0.50/1.00	0.50/1.00	0.50/1.00	0.50/1.00	0.50/1.00	0.50/1.00	0.50/1.00
PHYSICAL MAX. UNIT WEIGHT (LB)	7,800	7,800	9,600	7,800	7,800	9,600	7,800
DATA MAX. UNIT SIZE (W X H X L)	8'-4" X 6'-2" X 14'-8"	8'-4" X 6'-2" X 14'-8"	8'-10" X 6'-6" X 15'-8"	8'-4" X 6'-2" X 14'-8"	8'-4" X 6'-2" X 14'-8"	8'-10" X 6'-6" X 15'-8"	8'-4" X 6'-2" X 14'-8"
BASIS OF DESIGN	York CS 336 SH	York CS 336 SH	York CS 402 SH	York CS 336 SH	York CS 336 SH	York CS 402 SH	York CS 336 SH
REMARKS	High Efficiency Mtdng Box			High Efficiency Mtdng Box			High Efficiency Mtdng Box

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AIR HANDLING UNIT SCHEDULE

SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY FANS)	COOLING TONS	COLL	COLL (PRE-HEAT)	HEATING	MBH	CFM	EAT (DB)	LAT (DB)	FACE VEL. (FPM)	NO. ROWS	MAX SP (IN / WG)	EVT (DEG F)	LWT (DEG F)	GPM	PD (FT / WG)	PIPE SIZE (IN)	PRE-FILTER	FINAL FILTER	PHYSICAL DATA	REMARKS							
AHU-19	Fan Room - 3, Elev. 37	Lockers, BOH Shops	Pkg'd Horiz. Draw Thru	TE-4, 6	15,400	7,200	15,400	84.7 / 69.5	56.0 / 55.6	467	6	0.58	80	162	86	3.3	3.3	3	188	15,400	44.9	56.0	467	1	0.05	175	155	155	18	0.8	1.51/2"	High Efficiency Mixing Box
AHU-20	Fan Room - 3, Elev. 37	Kitchen (Elev. 38)	Pkg'd Horiz. Draw Thru	HV-1, KE-1, DWE-1	25,000	17,675	25,000	88.5 / 73	59.0 / 58.5	510	8	0.88	80	162	86	4.0	4.0	3	592	25,000	23.0	59.0	509	1	0.07	175	155	155	8.9	2 1/2"	High Efficiency Mixing Box	
AHU-21	Fan Room - 8, Elev. 89	Reg. Bldg, Cafe Dn.	Pkg'd Horiz. Draw Thru	TE-8	28,300	18,900	28,300	88.0 / 70.8	55.0 / 54.8	498	8	0.72	60	185	12.8	12.8	3	548 / 552	28,300 / 28,300	37.4 / 62.0	55.0 / 80.0	498	1	0.05	175 / 175	155 / 155	55 / 55	2.7	1.2 1/2"	High Efficiency Mixing Box		

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Schedule S15775 - Air Handling Units 14

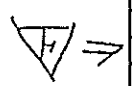
HVAC SCHEDULES
10/04/90

TVS&A 8803
VG 5134
P&W 88024

HVAC SCHEDULES
10/04/90

Schedule S15775 - Air Handling Units 18

AIR HANDLING UNIT SCHEDULE		AHU-26 (cont.)		AHU-27		AHU-27 (cont.)	
SYMBOL		Fan Room-13, Elev. 37		Fan Room-14, Elev. 37		Fan Room-14, Elev. 37	
LOCATION		Exhibit Hall D		Exhibit Hall D		Exhibit Hall D	
SERVICE		Builtup Horiz Blow Thru		Builtup Horiz Blow Thru		Builtup Horiz Blow Thru	
TYPE		TE-1, 2		TE-1, 2		TE-1, 2	
ASSOCIATED FANS		NA		NA		NA	
SUPPLY		TOTAL CFM		39,400		39,400	
FANS)		MIN. OA CFM		18,000		18,000	
		TSP (IN/WG)		8.00		8.00	
		OV (FPM)		2349		1062	
		RPM		1062		1062	
		TYPE		DWDI Centrifugal Airfoil		DWDI Centrifugal Airfoil	
		CLASS		II		II	
		VOLUME CONTROL		None		None	
MOTOR		BHP		47.6		47.6	
		MHP		60		60	
		RPM		1750		1750	
		TYPE		ODP		ODP	
		V-PH-HZ		480-3-60		480-3-60	
COOLING TONS		NA		163		163	
		CFM		39,400		39,400	
		EAT (DB/WB)		86.5 / 70.3		86.5 / 70.3	
		LAT (DB/WB)		55.5 / 55.0		55.5 / 55.0	
		FACE VEL. (FPM)		500		500	
		NO. ROWS		8		8	
		MAX SP (IN/WG)		0.62		0.62	
		EWT (DEG F)		NA		NA	
		LWT (DEG F)		NA		NA	
		GPM		245		245	
		PD (FT/WG)		2.6		2.6	
		PIPE SIZE (IN)		NA		NA	
HEATING		MBH		797		403	
		CFM		43,900		39,400	
		EAT (DB)		55.5		45.5	
		LAT (DB)		72.0		55.5	
		FACE VEL. (FPM)		NA		NA	
		NO. ROWS		NA		NA	
		MAX SP (IN/WG)		NA		NA	
		EWT (DEG F)		NA		NA	
		LWT (DEG F)		NA		NA	
		GPM		NA		NA	
		PD (FT/WG)		NA		NA	
		PIPE SIZE (IN)		NA		NA	
COIL		MBH		797		403	
		CFM		43,900		39,400	
		EAT (DB)		55.5		45.5	
		LAT (DB)		72.0		55.5	
		FACE VEL. (FPM)		NA		NA	
		NO. ROWS		NA		NA	
		MAX SP (IN/WG)		NA		NA	
		EWT (DEG F)		175		175	
		LWT (DEG F)		155		155	
		GPM		80		43	
		PD (FT/WG)		NA		NA	
		PIPE SIZE (IN)		NA		NA	
PRE-COIL		MBH		797		403	
		CFM		43,900		39,400	
		EAT (DB)		55.5		45.5	
		LAT (DB)		72.0		55.5	
		FACE VEL. (FPM)		NA		NA	
		NO. ROWS		NA		NA	
		MAX SP (IN/WG)		NA		NA	
		EWT (DEG F)		175		175	
		LWT (DEG F)		155		155	
		GPM		80		43	
		PD (FT/WG)		NA		NA	
		PIPE SIZE (IN)		NA		NA	
HEATING		MBH		797		403	
		CFM		43,900		39,400	
		EAT (DB)		55.5		45.5	
		LAT (DB)		72.0		55.5	
		FACE VEL. (FPM)		NA		NA	
		NO. ROWS		NA		NA	
		MAX SP (IN/WG)		NA		NA	
		EWT (DEG F)		175		175	
		LWT (DEG F)		155		155	
		GPM		80		43	
		PD (FT/WG)		NA		NA	
		PIPE SIZE (IN)		NA		NA	
PRE-FILTER		TYPE		27 Throwaway		27 Throwaway	
		% EFFICIENCY		NA		30	
		SP - INT./CHANGE (INWG)		NA		0.15 / 0.30	
FINAL FILTER		TYPE		12 Cartridge		12 Cartridge	
		% EFFICIENCY		NA		80	
		SP - INT./CHANGE (INWG)		NA		0.50 / 1.00	
PHYSICAL		MAX UNIT WEIGHT (LB)		NA		27,000	
DATA		MAX UNIT SIZE (W x H x L)		NA		12'-8" x 8'-7" x 32'-6"	
REMARKS		BASIS OF DESIGN		NA		Miller-Picking 21-48	
		Performance for reheat		NA		Performance for reheat	



11/17/90

HVAC SCHEDULES
10/04/90

Schedule S1575 - Air Handling Units 19

SCHEDULE		AIR HANDLING UNIT	
SYMBOL	AHU-28	LOCATION	Shed, Elev. 89
		SERVICE	Kitchen, Elev. 89
		TYPE	Pkg'd Horiz Draw Tru
ASSOCIATED FANS	KE-1, AHU-20, DWE-1		
SUPPLY	12,900	MIN. OA CFM	12,900
		TSP (IN/WG)	4.00
		OV (FPM)	1386
		RPM	2097
		TYPE	DWDI Centrifugal Airlift
		CLASS	II
		VOLUME CONTROL	None
MOTOR	BHP	17.3	32.6
	MHP	20	40
	RPM	1750	1750
	TYPE	ODP	ODP
	V-PH-HZ	480-3-60	480-3-60
COOLING TONS	45		147
	CFM	12,900	85.0/75.0
	EAT (DB / WB)	90.0 / 74.0	81.7 / 81.5
	LAT (DB / WB)	63.0 / 62.6	
	FACE VEL (FPM)	480	487
	NO. ROWS	6	5
	MAX SP (IN / WG)	0.73	0.48
	EWT (DEG F)	60	60
	LWT (DEG F)	60	60
	GPM	68	221
	PD (FT / WG)	1.0	11.6
	PIPE SIZE (IN)	2 1/2	2 1/2
HEATING	MBH	695	668
	CFM	12,900	12,900
	EAT (DB)	14.0	45.5
	LAT (DB)	63.0	62.8
	FACE VEL (FPM)	528	528
	NO. ROWS	1	1
	MAX SP (IN / WG)	0.08	0.08
	EWT (DEG F)	175	175
	LWT (DEG F)	155	155
	GPM	70	67
	PD (FT / WG)	2 1/2	2.8
	PIPE SIZE (IN)	2 1/2	2 1/2
PRE-FILTER	TYPE	2" Throwaway	2" Throwaway
	% EFFICIENCY	30	30
	SP - INT./CHANGE (IN/WG)	0.15/0.30	0.15/0.30
FINAL FILTER	TYPE	12" Cartridge	12" Cartridge
	% EFFICIENCY	80	80
	SP - INT./CHANGE (IN/WG)	0.50/1.00	0.50/1.00
PHYSICAL DATA	MAX. UNIT WEIGHT (LB)	5,000	13,000
	MAX. UNIT SIZE (W x H x L)	8'-2" x 4'-7" x 13'-6"	8'-10" x 8'-8" x 20'-8"
REMARKS	For information only - Not in the contract		York C9 898 / 754G

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AIR HANDLING UNIT SCHEDULE

SCHEDULE	SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY TOTAL CFM	FAN(S) MIN. OA CFM	TSP (IN/WG)	OV (FPM)	RPM	TYPE	CLASS	VOLUME CONTROL	BHP	MHP	RPM	TYPE	V-PH-HZ	COOLING TONS	CFM	EAT (DB / WB)	LAT (DB / WB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN / WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT / WG)	PIPE SIZE (IN)	HEATING MBH	CFM	EAT (DB)	LAT (DB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN / WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT / WG)	PIPE SIZE (IN)	PRE. FILTER TYPE	% EFFICIENCY	SP - INT./CHANGE (IN/WG)	FINAL FILTER TYPE	% EFFICIENCY	SP - INT./CHANGE (IN/WG)	PHYSICAL MAX. UNIT WEIGHT (LB)	DATA MAX. UNIT SIZE (W x H x L)	REMARKS
AHU-1	Fan Room - 1A, Elev. 37	12th and 13th St. Conc.		Pkg'd Horiz. Draw Thru	TE-5, 7	21,800	3,600	7.50	1592	2065	DWDI Centrifugal Airtoll	II	Inlet Vanes	43.3	50	1750	ODP	480-3-60	55	21,800	81.7 / 67.0	58.0 / 57.6	519	5	0.57	44	60	83	4.6	519	518	62.0	84.0	538	1	0.06	175	155	52	4.4	2 1/2"	2" Throwaway	% EFFICIENCY	0.15 / 0.30	12" Cartridge	% EFFICIENCY	60	0.50 / 1.00	10,000	9'-10" x 5'-8" x 15'-8"	York CS 402 SH (XF)
AHU-2	Fan Room - 1B, Elev. 37	Mig Rms - 101, 102, 103		Pkg'd Horiz. Draw Thru	NA	18,700	18,700	7.50	1365	1952	DWDI Centrifugal Airtoll	II	Inlet Vanes	35.3	40	1750	ODP	480-3-60	114	18,700	90.0 / 74.0	52.0 / 51.5	462	10	0.95	44	60	171	13.8	462	782	52.0	52.0	462	1	0.05	175	155	78	9.1	2" Throwaway	% EFFICIENCY	0.15 / 0.30	12" Cartridge	% EFFICIENCY	60	0.50 / 1.00	9,600	8'-10" x 5'-8" x 15'-8"	York CS 402 SH	
AHU-3	Fan Room - 1B, Elev. 37	Mig Rms - 104 thru 108		Pkg'd Horiz. Draw Thru	NA	20,000	20,000	7.50	1460	1989	DWDI Centrifugal Airtoll	II	Inlet Vanes	38.6	50	1750	ODP	480-3-60	122	20,000	90.0 / 74.0	52.0 / 51.7	494	10	1.05	44	60	183	15.5	494	836	20,000	14.0	52.0	494	1	0.06	175	155	84	10.3	2" Throwaway	% EFFICIENCY	0.15 / 0.30	12" Cartridge	% EFFICIENCY	60	0.50 / 1.00	9,600	8'-10" x 5'-8" x 15'-8"	York CS 402 SH

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Schedule S15775 - Air Handling Units 1

HVAC SCHEDULES

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TWS&A 8803
VG 5134
P&W 88024

AIR HANDLING UNIT SCHEDULE

SCHEDULE	SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY TOTAL CFM	MIN. OA CFM	TSP (IN/WG)	OV (FPM)	RPM	TYPE	CLASS	VOLUME CONTROL	BHP	MHP	RPM	TYPE	V-PH-HZ	COOLING TONS	CFM	EAT (DB/WB)	LAT (DB/WB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN/WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT/WG)	PIPE SIZE (IN)	HEATING MBH	CFM	EAT (DB)	LAT (DB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP (IN/WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT/WG)	PIPE SIZE (IN)	COIL (PRE-HEAT)	PRE-FILTER TYPE	% EFFICIENCY	SP - INT/CHANGE (INWG)	FINAL FILTER TYPE	% EFFICIENCY	SP - INT/CHANGE (INWG)	PHYSICAL DATA	MAX. UNIT WEIGHT (LB)	MAX. UNIT SIZE (W x H x L)	REMARKS
AHU-7	Fan Room - 4, Elev. 50	Admin, E Arch St Conc	Pkg'd Horiz. Draw Thru	TE-2, 3	26,700	26,700	81.2/66.6	88.0/69.8	1378	1336	DWDI Centrifugal Airtoll	II	Inlet Varos	36.6	40	1750	ODP	480-3-60	07	26,700	82.0	80.0	468	5	0.48	4.5	4.5	4.5	3.1	4.5	26,700	62.0	80.0	468	1	0.05	175	155	53	2.5	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	9'-10" x 7'-8" x 18'-5"	11,400	9'-10" x 7'-8" x 18'-5"	York CS 578 SH	
AHU-8A	Pool, Elev. 76	Exhibit Hall A	Pool, Elev. 76	Exhibit Hall A	22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises
AHU-8A (cont.)	Pool, Elev. 76	Exhibit Hall A	Pool, Elev. 76	Exhibit Hall A	22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL	PRE-FILTER TYPE	30	0.15/0.30	12" Cartridge	60	0.50/1.00	13'-0" x 12'-0" x 32'-0"	32,250	13'-0" x 12'-0" x 32'-0"	Air Enterprises	
					22,200	54,550	88.0/69.8	56.0/55.5	990	990	DWDI Centrifugal Airtoll	II	None	66.3	75	1750	ODP	480-3-60	208	54,550	56.0	56.0	500	8	0.62	NA	NA	3.1	NA	458	54,550	48.4	56.0	650	1	0.11	175	155	48	1.3	2 1/2	COIL											

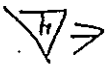
AIR HANDLING UNIT SCHEDULE

SYMBOL	LOCATION	SERVICE	TYPE	ASSOCIATED FANS	SUPPLY TOTAL CFM	FAN(S) MIN. OA CFM	TSP (IN/WG)	OV (FPM)	RPM	TYPE	CLASS	VOLUME CONTROL	BHP	MHP	RPM	TYPE	V.P.H.-HZ	COOLING TONS	CFM	EAT (DB/WB)	LAT (DB/WB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP. (IN/WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT/WG)	PIPE SIZE (IN)	HEATING MBH	COIL CFM	EAT (DB)	LAT (DB)	FACE VEL. (FPM)	NO. ROWS	MAX. SP. (IN/WG)	EWT (DEG F)	LWT (DEG F)	GPM	PD (FT/WG)	PIPE SIZE (IN)	PRE-FILTER TYPE	% EFFICIENCY	SP. INT./CHANGE (INWG)	FINAL FILTER TYPE	% EFFICIENCY	SP. INT./CHANGE (INWG)	PHYSICAL DATA	MAX. UNIT WEIGHT (LB)	MAX. UNIT SIZE (W X H X L)	BASIS OF DESIGN	REMARKS	
AHU-12A	Central Mechanical Plant	Exhibit Hall A	Custom Horiz Blow Thru	TE-7	54,550	NA	22,200	6,00	2662	990	DWDI Centrifugal Airlift	None	66.3	75	1750	ODP	480.3:60	209	54,550	86.0 / 69.9	56.0 / 55.5	500	NA	8	0.62	NA	NA	314	3.1	456	54,550	48.4	58.0	500	1	0.11	175	155	46	1.3	2 1/2"	2" Throwaway	30	NA	0.15 / 0.30	12" Cartridge	60	NA	0.50 / 1.00	32,250	13'-0" x 12'-0" x 32'-0"	NA	Performance for retrofit
AHU-11B (cont.)	Central Mechanical Plant	Exhibit Hall B	Custom Horiz Blow Thru	TE-7	54,550	NA	22,200	6,00	2662	990	DWDI Centrifugal Airlift	None	66.3	75	1750	ODP	480.3:60	209	54,550	86.0 / 69.9	56.0 / 55.5	500	NA	8	0.62	NA	NA	314	3.1	456	54,550	48.4	58.0	500	1	0.11	175	155	46	1.3	2 1/2"	2" Throwaway	30	NA	0.15 / 0.30	12" Cartridge	60	NA	0.50 / 1.00	28,000	13'-0" x 12'-0" x 32'-0"	NA	Performance for retrofit
AHU-11B	Central Mechanical Plant	Exhibit Hall B	Custom Horiz Blow Thru	TE-7	54,550	NA	22,200	6,00	2662	990	DWDI Centrifugal Airlift	None	66.3	75	1750	ODP	480.3:60	209	54,550	86.0 / 69.9	56.0 / 55.5	500	NA	8	0.62	NA	NA	314	3.1	456	54,550	48.4	58.0	500	1	0.11	175	155	46	1.3	2 1/2"	2" Throwaway	30	NA	0.15 / 0.30	12" Cartridge	60	NA	0.50 / 1.00	28,000	13'-0" x 12'-0" x 32'-0"	NA	Performance for retrofit

Schedule S15775 - Air Handling Units 8

HVAC SCHEDULES
10/04/90

TVS&A 8803
VG 5134
P&W 88024



HVAC SCHEDULES
10/04/90

Schedule S15775 - Air Handling Units 10

AIR HANDLING UNIT SCHEDULE			
SCHEDULE	SYMBOL	LOCATION	SERVICE
AHU-13A	AHU-13A (cont.)	Pool, Elev. 76	Exhibt Hall A
AHU-13B	AHU-13B	Pool, Elev. 76	Exhibt Hall A
			Cust Rooftop Blow Thru
			TE-4
			NA
			54,550
			22,200
			6.00
			2662
			990
			DWDI Centrifugal Airlift
			II
			None
			66.3
			75
			1750
			ODP
			480-3-60
			209
			54,550
			86.0 / 69.9
			56.0 / 55.5
			500
			8
			NA
			0.62
			60
			314
			3.1
			3.1
			PD (FT/WG)
			PIPE SIZE (IN)
			HEATING MBH
			458
			54,550
			48.4
			58.0
			LAT (DB)
			56.0
			FACE VEL (FPM)
			850
			NO. FLOWS
			1
			0.11
			MAX. SP (IN/WG)
			175
			EWT (DEG F)
			155
			LWT (DEG F)
			46
			GPM
			3.1
			PD (FT/WG)
			PIPE SIZE (IN)
			HEATING MBH
			458
			54,550
			48.4
			58.0
			LAT (DB)
			56.0
			FACE VEL (FPM)
			850
			NO. FLOWS
			1
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			175
			EWT (DEG F)
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			LWT (DEG F)
			46
			GPM
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			LAT (DB)
			56.0
			FACE VEL (FPM)
			850
			NO. FLOWS
			1
			0.11
			MAX. SP (IN/WG)
			175
			EWT (DEG F)

EQUIPMENT								
COOLING TOWERS - Baltimore Aircoil Co 3000 SERIES								
		# OF	GPM PER	TOTAL	WATER TEMP		FANS	
		CELLS	CELL	GPM	ENT (F)	LVG.(F)	CFM	VFD
CT-1		2	2,800	5,600	95.2	85	427,800	YES
CT-2		2	2,800	5,600	95.2	85	427,800	YES
CT-3		2	2,800	5,600	95.2	85	427,800	YES
EQUIPMENT								
ELEC. CENTRIFUGAL CHILLERS - Johnson Controls Inc. YK York Max E Chiller								
						CHW	CHW	
		CAPACITY		KW/TON	NPLV	EWT (F)	LWT. (F)	GPM
CH-3		1,800 TONS		0.561	0.483	58	42	2,700
CH-4		1,800 TONS		0.561	0.483	58	42	2,700
						CW	CW	
						EWT (F)	LWT. (F)	GPM
						85	93	5,600
						85	93	5,600
EQUIPMENT								
GAS/OIL ABSORPTION CHILLER /HEATER - JCI - YORK YPC PARAFLOW DIRECT FIRE								
						CHW	CHW	
						CW	CW	
		CAPACITY		EWT (F)	LWT. (F)	EWT (F)	LWT. (F)	
CH-1		705 TONS		58	42	85	97.8	
CH-2		705 TONS		58	42	85	97.8	
				GPM	1,055	GPM	2,800	
EQUIPMENT								
BOILERS - Burnham								
		OUTPUT	BLR. HP	TYPE		FUEL	EWT (F)	LWT. (F)
		MBH	NOM.					
B-1		16,740	500	FIRE TUBE		GAS/OIL	160	185
B-2		16,740	500	FIRE TUBE		GAS/OIL	160	185
EQUIPMENT								
BUILDING AUTOMATION SYSTEM - SIEMENS								

