# **Council Pre-Hearing Questions for DCPS Reopening Roundtable 9-28**

#### Committee of the Whole

1. Please provide a complete list of outstanding HVAC replacement/repairs that need to be completed, and a date for when the repairs will be completed.

Please see the tables below for the complete list of outstanding HVAC replacement/repairs.

# Status of HVAC-Related Work Orders at DC Public Schools Facilities

School	Estimated
	Completion Date
Beers	1-Oct
Browne	1-Oct
Bunker Hill	1-Oct
Cardoza	10-Dec
Dunbar	1-Oct
Garrison	1-Oct
Janney	1-Oct
JO Wilson	1-Oct
Kelly Miller	1-Oct
Kramer	1-Oct
Langdon	1-Oct
LaSalle-Backus	5-Nov
Mann	1-Oct
Maury	1-Oct
Oyster-Adams	1-Oct
Payne	1-Oct
Ross	1-Oct
Seaton	1-Oct
Sharpe	1-Oct
Simon	1-Oct
Stanton	15-Oct
Stoddert	1-Oct
Thomson	1-Oct
Tyler	8-Oct
Wells	1-Oct
Wheatley	1-Oct
Whittier	1-Oct

School	Estimated Completion Date	Notes
Bruce Monroe - Park View	TBD	Awaiting parts delivery.
Cleveland	TBD	Two Water Source Heat Pumps need to be replaced and are on order. Rooms 3:07 and 218 should be completed by 10/15.
King ES	TBD	FY22 Capital Project request. The largest components of the system have failed and are beyond repair DCPS and DGS will seek to have this added as an FY22 Stabilization Project.
Marie Reed	TBD	First floor VRF system that serves 12-15 classrooms has several refrigerant leaks. Contractor is doing assessment of needed repairs to ensure correct route for permanent solution.
Plummer	TBD	Piping issues. VRF system is installed, but faulty piping was found with several oil traps which causes compressor failure.
Roosevelt	TBD	Will likely require additional repairs in winter; repeated issues with the HVAC system require additional investigation.
Turner	TBD	Awaiting parts delivery.

#### Councilmember Lewis George

#### 1. Provide a breakdown of the \$24 million invested in DCPS HVAC retrofits and HEPA

filters as part of the Summer Blitz.

The \$24 million project was an upgrade to enhance air filtration at DCPS facilities, but was separate from the HVAC repair effort under the summer blitz.

The work was completed between Fall 2020 and Winter 2020-21. At a high level, the work involved the following:

- 1. Thorough assessment of each facility by a mechanical engineer. The assessment included an evaluation of the facilities' mechanical system and recommendations on how modifications could be made to increase fresh air and filtration.
- 2. DGS and its partners installed numerous pieces of equipment and upgrades including troffers in large bathrooms, small HEPA filtration units in each classroom, large HEPA filtration units in large gathering spaces and indoor air quality sensors throughout the building.
- 3. Ongoing monitoring by DGS of the sensors and changes to the sequences of operations for each facility.

This project was recognized as a model by the Environmental Protection Agency (EPA) and recently awarded Project of the Year by the Construction Management Association of America's Mid-Atlantic Chapter, and is a nominee for the national Project of the Year Award.

2. Work Order Breakdown:

a) Total number of priority work orders open in May 2021, for the following categories:

electrical; fire, life and safety; HVAC; landscaping; playground; plumbing; roofing;

and windows.

The table below shows the total number of priority DCPS work orders open in May 2021 in the requested eight categories.

Priority Bucket	Total	Completed	Open
ELECTRICAL	124	119	5
Fire Life Safety	212	132	80
HVAC	452	251	201
Landscaping	129	125	4
Playground	131	100	31
PLUMBING	268	252	16
Roofing	313	206	107
Windows	591	490	101
Grand Total	2,220	1,675	545

Source: DGS Salesforce System Data

b) For each category, include the percent closed before school started on August 30th;

percent closed since August 30th; and the percent remaining open as of September 22<sup>nd</sup>

The table below shows the percent closed prior to school start on 8/30, percent closed between 8/30 and 9/22, and open since 9/22. *Note: the detailed table is included in Appendix*.

Priority Bucket	% completed/closed by 8/30 school start	% complete/closed 8/31-9/22	% remaining open as of 9/22
ELECTRICAL	95%	1%	4%
Fire Life Safety	39%	24%	37%
HVAC	30%	26%	44%
Landscaping	97%	0%	3%
Playground	76%	0%	24%
PLUMBING	93%	1%	6%
Roofing	64%	2%	34%
Windows	83%	0%	17%
Grand Total			

3. Provide the average time to cure for submitted work orders of each category. How long

# should schools expect to wait for work orders to be addressed

DGS' overall average time to complete DCPS work orders is 63 days. DGS reasonably expects to be able to complete work orders in the 45-55 day timeframe, on average but this is highly dependent on the individual work order. Part delays may extend the completion timeframe. The timeframe can be longer than usual in the case of complex work orders that require a full diagnosis, as compared to more simple work orders (e.g. HVAC malfunction vs. sink falling off wall).

# 4. How does DGS communicate progress or estimated completion dates for open work orders

# to schools?

DGS works closely with the DCPS Facilities Team to provide comprehensive updates on work orders, and the DCPS Facilities Team is able to convey the information internally within DCPS. Additionally, DGS Facility Maintenance Team Members work directly with the DCPS individual schools' local support staff, who manage and maintain the entry of work orders at each respective facility.

5. Provide a narrative explanation for delays in getting all schools ready for the start of school on Monday, August 30th.

Every school in the DCPS Portfolio opened on time for the start of school on Monday, August 30. The last 18 months have been unique in that thy have presented persistent challenges due to a combination of heightened global demand and slower production of HVAC parts due to the pandemic's impact on global supply chains. Unfortunately, the District of Columbia was not immune to these supply chain challenges. We faced the same significant challenges as our sister jurisdictions around the country in obtaining key replacement parts.

In looking to mitigate these challenges, DGS develop strategies to work around supply-chain holdups. For example, we know that there are heightened concerns about HVAC-related issues. Therefore, as HVAC parts continue to be received, DGS actively works to expedite the necessary repairs to bring any down HVAC systems back online. Similarly, DGS understands there are concerns about filtering and classroom temperatures in some schools. If an HVAC system goes offline, the impacted classrooms continue to be serviced by a mobile HEPA unit installed by DGS for contingency filtering. The mobile HEPA units are separate from the HVAC system. This means the risk for spreading COVID continues to be always mitigated by an enhanced filtering system, even when an HVAC system is temporarily offline.

Moreover, just as DGS developed a contingency plan for air filtering, we also developed a contingency plan for addressing classroom temperatures. Throughout the summer, the DGS FMD team scoured the region for any available spot coolers and window air conditioning units to ensure all classrooms would be comfortable learning environments even if HVAC repair was impacted by supply chain issues. By the first day of school, every classroom impacted by an offline HVAC system had spot coolers and/or window units installed and operating. In addition, DGS procured a backup supply of spot coolers and window units, which we are holding in storage. This backup supply positions us to provide additional cooling units to classrooms as needed, as well as respond to any emergent HVAC issues with contingency cooling.

6. Provide a list of schools by Ward that relied on temporary spot coolers and/or window units

to regulate temperature at the start of school on August 30th, 2021.

Please see below the table with contingency cooling unit data, as well as a list of schools by Ward indicating where contingency cooling was dispatched, as of August 30, 2021.

Unit Type	Amount Dispatched	Amount in Inventory
Spot Coolers	302	32

Window Units	84	111
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1	BRUCE-MONROE ELEMENTARY SCHOOL @ PARK VIEW
	CARDOZO EDUCATION CAMPUS
	COLUMBIA HEIGHTS EDUCATION CAMPUS
	MARIE REED RECREATION ELEMENTARY SCHOOL
	OYSTER-ADAMS BILINGUAL SCHOOL (ADAMS CAMPUS)
2	GARRISON ELEMENTARY SCHOOL
	SWW@FRANCIS STEVENS
	THOMSON ELEMENTARY SCHOOL
3	JANNEY ELEMENTARY SCHOOL
	MANN ELEMENTARY SCHOOL
	Military Rd School
	STODDERT ELEMENTARY SCHOOL
4	IDA B. WELLS MIDDLE SCHOOL
	LASALLE-BACKUS EDUCATION CAMPUS
	ROOSEVELT HIGH SCHOOL
	SHARPE HEALTH SWING SPACE
	WHITTIER EDUCATION CAMPUS
5	BROWNE EDUCATION CAMPUS
	BUNKER HILL ELEMENTARY SCHOOL
	BURROUGHS EDUCATION CAMPUS
	DUNBAR HIGH SCHOOL
	LANGDON EDUCATION CAMPUS
	LANGLEY ELEMENTARY SCHOOL
	PHELPS ACE HIGH SCHOOL
	WHEATLEY EDUCATION CAMPUS
6	BRENT ELEMENTARY SCHOOL
	EASTERN HIGH SCHOOL
	FEMS Fleet Maintenance
	J.O. WILSON ELEMENTARY SCHOOL
	MAURY ES
	PAYNE ELEMENTARY SCHOOL
	SEATON ELEMENTARY SCHOOL
	STUART-HOBSON MIDDLE SCHOOL
	TYLER ELEMENTARY SCHOOL
	WATKINS ELEMENTARY SCHOOL
7	BEERS ELEMENTARY SCHOOL

	KELLY MILLER MIDDLE SCHOOL
	NALLE ELEMENTARY SCHOOL
	PLUMMER ELEMENTARY SCHOOL
	Smothers @ KENILWORTH ELEMENTARY
	SOUSA MIDDLE SCHOOL
	WOODSON HIGH SCHOOL
8	EXCEL ACADEMY
	HART MIDDLE SCHOOL
	JOHNSON MIDDLE SCHOOL
	KRAMER MIDDLE SCHOOL
	LECKIE ELEMENTARY SCHOOL
	MARTIN LUTHER KING JR ELEMENTARY SCHOOL
	PATTERSON ELEMENTARY SCHOOL
	SIMON ELEMENTARY SCHOOL
	STANTON ELEMENTARY SCHOOL
	TURNER ELEMENTARY SCHOOL

7. Provide a list of schools by Ward that had open work orders for roof leaks at the start of

# school on Monday, August 30<sup>th</sup>

The table below shows the list of schools by Ward with open work orders for roof leaks at the start of school on Monday, August 30<sup>th</sup>. There were a total of 199 open work orders for roof leaks on 8/30.

Ward	Building Name	Count of Open Roofing Work Orders
1	BANCROFT ELEMENTARY SCHOOL	1
	BRUCE-MONROE ELEMENTARY SCHOOL @ PARK VIEW	2
	CARDOZO EDUCATION CAMPUS	1
	CLEVELAND ELEMENTARY SCHOOL	2
	COLUMBIA HEIGHTS EDUCATION CAMPUS	5
	GARNETT-PATTERSON MIDDLE	1
	H.D. COOKE ELEMENTARY SCHOOL	4
	MARIE REED RECREATION ELEMENTARY SCHOOL	3
	MEYER SWING SPACE	1
	OLD BANNEKER HIGH SCHOOL	1

	OYSTER-ADAMS BILINGUAL SCHOOL (ADAMS	
	CAMPUS)	4
	TUBMAN ELEMENTARY SCHOOL	1
Ward 1 Total		26
2	GARRISON ELEMENTARY SCHOOL	3
	HARDY MIDDLE SCHOOL	1
	HYDE-ADDISON ELEMENTARY SCHOOL	1
	SCHOOL WITHOUT WALLS HIGH SCHOOL	2
	THOMSON ELEMENTARY SCHOOL	2
Ward 2 Total		9
3	HEARST ELEMENTARY SCHOOL	4
	JANNEY ELEMENTARY SCHOOL	2
	KEY ELEMENTARY SCHOOL	2
	MANN ELEMENTARY SCHOOL	1
	OYSTER-ADAMS BILINGUAL SCHOOL (OYSTER	2
	CAMPUS)	2
	WILSON HIGH SCHOOL	2
Ward 3 Total		13
4	BARNARD ELEMENTARY SCHOOL	2
	BRIGHTWOOD EDUCATION CAMPUS	1
	COOLIDGE HIGH SCHOOL	8
	LAFAYETTE ELEMENTARY SCHOOL	2
	LASALLE-BACKUS EDUCATION CAMPUS	1
	MACFARLAND MIDDLE SCHOOL	1
	RAYMOND EDUCATION CAMPUS	1
	SHARPE HEALTH SWING SPACE	1
	SHEPHERD ELEMENTARY SCHOOL	3
	TAKOMA EDUCATION CAMPUS	11
	TRUESDELL EDUCATION CAMPUS	1
	WHITTIER EDUCATION CAMPUS	1
Ward 4 Total		33
5	BROWNE EDUCATION CAMPUS	2
	BUNKER HILL ELEMENTARY SCHOOL	1
	BURROUGHS EDUCATION CAMPUS	1
	DCPS WAREHOUSE	3
	LANGLEY ELEMENTARY SCHOOL	8
	LEMMUEL PENN CENTER	4
	LUKE C. MOORE HIGH SCHOOL	4
	MCKINLEY MIDDLE SCHOOL / TECH HIGH SCHOOL	3

	NOYES ELEMENTARY SCHOOL	11
	PHELPS ACE HIGH SCHOOL	1
	WHEATLEY EDUCATION CAMPUS	6
Ward 5 Total		44
6	AMIDON ELEMENTARY SCHOOL	1
	BRENT ELEMENTARY SCHOOL	1
	EASTERN HIGH SCHOOL	5
	MINER ELEMENTARY SCHOOL	1
	PAYNE ELEMENTARY SCHOOL	2
	SEATON ELEMENTARY SCHOOL	1
	STUART-HOBSON MIDDLE SCHOOL	6
	TYLER ELEMENTARY SCHOOL	1
	VAN NESS ELEMENTARY	1
	WALKER-JONES EDUCATION CAMPUS	1
	WATKINS ELEMENTARY SCHOOL	4
Ward 6 Total		24
7	BARD HS @ DAVIS	5
	BEERS ELEMENTARY SCHOOL	3
	KELLY MILLER MIDDLE SCHOOL	1
	PLUMMER ELEMENTARY SCHOOL	2
	RANDLE HIGHLANDS ELEMENTARY SCHOOL	1
	RIVER TERRACE EDUCATION CAMPUS	1
	RON BROWN HIGH SCHOOL	2
	SOUSA MIDDLE SCHOOL	1
	THOMAS ELEMENTARY SCHOOL	9
	WOODSON HIGH SCHOOL	3
Ward 7 Total		28
8	ANACOSTIA HIGH SCHOOL	1
	HART MIDDLE SCHOOL	1
	KETCHAM ELEMENTARY SCHOOL	3
	MALCOLM X	1
	MOTEN ELEMENTARY SCHOOL	2
	SAVOY ELEMENTARY SCHOOL	3
	SIMON ELEMENTARY SCHOOL	2
	STANTON ELEMENTARY SCHOOL	4
	TURNER ELEMENTARY SCHOOL	4
	WILKINSON ELEMENTARY	1
Ward 8 Total		22
Total		199

#### Source: DGS Salesforce System Data

8. DCPS had a plan with DGS to have all schools ready for in-person learning by November

7, 2020. Why were there so many issues left to be fixed in August of 2021?

All schools were ready for in-person learning safely because we prioritized indoor air quality and COVID readiness. With that said, there are routinely numerous open work orders that accumulate each year. Additionally, the impacts from the pandemic and global supply chain shortages disrupted typical operations. We continue to support DCPS in planning forward to meet facility needs.

9. Please share the August 2021 Indoor Air Quality (IAQ) report for DCPS facilities.

Please see attached document titled "DGS IAQ Monthly Report August 2021" provided by the DGS IAQ contractor, Setty & Associates. The report states that air quality was found to be "excellent" or "very good" at all DCPS facilities.

#### Councilmember Allen

I. Please provide a list of all open work orders for Ward 6 DCPS schools more than 30 days

Old.

Please see attached document titled "DCPS Ward 6 Work Orders- Aging 30+."

2. Please describe the standard HVAC maintenance policy for DCPS schools, including

typical ongoing obligations, and the duration of those obligations, of the contractor hired

to install an HVAC system.

HVAC sub-contractors are required to provide one (1) year of warranty coverage for all mechanical systems. After which, DGS FMD assumes all Maintenance responsibility with exception to previously reported warranty claims. However, equipment manufacturer warranties can last from 1-10 years for certain components or parts.

#### 3. Is the HVAC system at newly renovated Maury ES still under warranty? If so, were the

#### recent repairs there covered by the warranty? If not, why?

Maury Elementary School was delivered in summer 2019, so was no longer within the 1-year subcontractor warranty period during the recent repairs.

# 4. What is the agency's strategy for ensuring the proper operation of the aging HVAC system

# at Seaton ES?

DGS Facilities Maintenance Division will continue to maintain the Seaton Elementary School HVAC system. The long-term plan is for the system to be included in a facility modernization starting in FY2026.

# 5. What is the status of all DGS repair and construction projects at Amidon-Bowen ES?

Construction of the overcrowding relief is ongoing as a multi-phase project, with multiple delivery windows. Phases with scheduled delivery before the start of the school year have been completed.

# 6. When will the fence at Jefferson MS be repaired?

The temporary fence repairs, which will ensure safety while the permanent repair is pending, were completed in late August 2021. Permanent fence repairs are scheduled for the start of FY22.

# Councilmember Nadeau

I. There remains HVAC issues at Marie Reed. The temporary units are loud and the students cannot concentrate with the noise, hot temperatures, and low filtration in the room. The unit was schedule to be repaired on 9/18 and no one showed to fix it. There have been several tickets placed to be fixed. Can you please provide an update on the exact date work will begin?

A portion of the HVAC system that serves 12-15 classrooms has several refrigerant leaks. A DGS contractor is currently conducting an assessment of needed repairs to ensure the correct route for permanent solution is identified. An exact date to start repairs is not available at this time, pending the outcome of the assessment.

2. Our big question is getting specifics on Cleveland ES. We are hearing dates to begin a permanent solution to the AC issue for late September. We are also hearing "sometime in October." What is the timeline? What is the exact start date? When will work be

# Completed?

HVAC repairs have been delayed due to the parts shortage caused by global supply chain disruptions due to COVID-19. Two Water Source Heat Pumps need to be replaced and are on order. The contractor currently projects part delivery to occur in October. Pending parts delivery, Rooms 307 and 218 should be completed by 10/15. DGS has installed spot coolers in all classrooms to ensure a comfortable learning environment. DGS is currently working to provide additional contingency cooling measures to three classrooms that have reported a need for enhanced cooling beyond the spot coolers already installed in this classrooms.

# Councilmember Trayon White

# 1. Do all DCPS/PCS schools have HEPA filters? Particularly in the spaces frequented by

# students, faculty, and staff.

All DCPS facilities have HEPA filters as installed during DGS COVID-19 DCPS filtering enhancements, completed in February 2021. Every DCPS classroom has been provided with a mobile HEPA filter unit and each DCPS school has been provided with two large HEPA filter units for larger spaces (e.g. cafeterias and auditoriums). DSG does not have Public Charter School (PCS) facilities within its portfolio.

# 2. Is the air exchange rate at DCPS/PCS schools satisfactory according to the minimum

# recommended by the CDC and other experts?

The CDC follows the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) standards for air exchange rates. The clean air exchange rates as part of the COVID retrofits completed in Fall 2020 to Winter 2020-21 for DCPS facilities meet or exceed the ASHRAE standards. Further, the additional equipment installed (HEPA filters and troffers) act as a supplement to the HVAC system, so in case part of the HVAC system is inoperable the building's occupants will still be safe because of the filtration equipment that has been installed. DSG does not have Public Charter School (PCS) facilities within its portfolio.

# 3. How have schools been outfitted to maintain the proper safe distances between individuals

# without impeding learning or progressive social interaction for young people?

Educational social distance aides such as carpet squares and painters tape were provided to assist with maintaining safe distances during learning times. Additionally, all schools received 6 foot social distance adhesive floor markers to further assist with maintaining social distance.

# 4. Have schools been outfitted for safety given the natural inclination of young people to

#### interact within close proximity to one another?

DCPS and DGS worked together on various School Re-Opening Committees to provide a number of physical alterations as well as supplemental aides were provided by DGS to support DCPS operations in both the Main Lobby areas and Instructional areas. These include plexiglass partitions, painters tape to mark out assigned areas on the floors as well as carpet tiles. Social Distancing "6ft Apart" floor decals and thousands of gallons of hand sanitizer with dispensers were delivered to schools.

5. Are there locations being designated to continue in-person learning for students who must

be relocated from their home institutions due to an outbreak?

This is beyond the scope of DGS' purview. DGS defers to DCPS and DC Health to respond.

6. Is there a universal process for safely housing students until parents and guardians can collect them in the case of an unexpected necessity to relocate?

This is beyond the scope of DGS' purview. DGS defers to DCPS and DC Health to respond.

7. Do all Ward 8 schools meet the requirements for safely re-opening? If not, why and what percentage of schools still need to meet re-opening requirements? And what exactly needs to be done so that they meet the requirements?

Yes, all Ward 8 schools meet the requirements for safely re-opening.

Councilmember Henderson

1. Provide the list of DCPS schools with outstanding HVAC repairs as of September I, 2021 and include the nature of the issue, date of the order for parts, estimated completion date, and the date of the repair if already completed .

At the start of the school year, DCPS and DGS were jointly tracking outstanding HVAC repairs at 45 Schools. That list was reduced from a list of 70 locations that were identified in mid-August. Between August 18<sup>th</sup> and August 31<sup>st</sup>, DGS was able to complete repairs and restore cooling at 25 Facilities. The remaining Facilities were supplied with supplemental cooling measures while permanent repairs were pending.

Please see the tables below for the complete list, to date, of outstanding HVAC replacement/repairs.

# Status of HVAC-Related Work Orders at DC Public Schools Facilities

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Plummer	TBD	Piping issues. VRF system is installed, but faulty piping was found with several oil traps which causes compressor failure.
Roosevelt	TBD	Will likely require additional repairs in winter; repeated issues with the HVAC system require additional investigation.
Turner	TBD	Awaiting parts delivery.

2. If HVAC repair delays are due to supply chain disruptions, please elaborate on the nature

of the supply chain disruption. In your response also include whether it is limited to

industrial HY AC systems, or all HY AC systems, how long it is anticipated to last, and

what actions DOS has taken to plan for prolonged supply chain disruptions.

DGS has had challenges procuring HVAC parts this year due to a combination of heightened global demand and slower production of HVAC parts due to the pandemic's impact on global supply chains. We face the same significant challenges as jurisdictions around the country in obtaining replacement parts.

Unfortunately, DGS does not have any reason to expect imminent improvement to supply chains and changes are unpredictable due to the nature of the pandemic. The disruptions have been particularly difficult as they have particularly affected small parts and electronics, the latter of which are an indispensable part of any HVAC system. DGS is working with its vendors to order equipment and materials as early as possible and working with its stakeholders to manage expectations/risks around supply chain issues. As parts are received, we expedite the necessary repairs to bring the HVAC systems back online.

3. Indicate if there are other small capital projects (windows, elevators, etc.) that have been impacted by supply chain disruptions, expected duration of the disruptions, and steps DGS is taking to mitigate the disruptions.

We have experienced supply chain issues on the following projects:

- Window replacements
- Playground surface upgrades
- Smartboard replacements

Unfortunately, DGS does not have any reason to expect imminent improvement to supply chains and changes are unpredictable due to the nature of the pandemic. DGS is working with its vendors to order equipment and materials as early as possible and working with its stakeholders to manage expectations/risks around supply chain issues. As parts are received, we expedite the necessary repairs to bring the HVAC systems back online.

4. As the seasons change and we head in to fall and winter, can we anticipate further HVAC

issues as we switch from cooling to heating, and how is DGS planning to mitigate the

impact of any HVAC issues and supply chain disruptions?

The BPO/HVAC team begins heating preparation in April of each year. This includes prepping for inspections, a DCRA inspection before a boiler can go online, and reporting any issues for contracting support. As of 9/23, DCRA Boiler Inspections for heating readiness is at 75% completion for Test Firing and Reassembling of boilers.

The heating switch-over occurs from October 15 to November 15 annually. DGS is working ahead to try to identify issues before heating season during the inspection process and are ordering parts ahead of time, as we identify needs. However, certain issues cannot be seen, diagnosed, or repaired until boilers are fully operational during heating season. Given this reality, while DGS is working ahead, unforeseen repairs may be needed. In any such cases, DCPS will work with vendors to expedite parts and conduct repairs as soon as possible. In any cases where boilers go offline, DGS will have contingency heating, such as hanging heaters and temporary boilers as necessary.