



STATE OF HAWAII
DEPARTMENT OF EDUCATION
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OFFICE OF THE SUPERINTENDENT

May 17, 2016

TO: The Honorable Grant Chun
Chairperson, Finance and Infrastructure Committee

FROM:  Kathryn S. Matayoshi
Superintendent

SUBJECT: **Update on the Department of Education's Heat Abatement Program:
Progress since April 19, 2016**

1. DESCRIPTION

Office of School Facilities and Support Services (OSFSS) provides a update outlining our efforts being deployed regarding the heat abatement program. The update is available to the public via the Department of Education Heat Abatement webpage.

2. UPDATE OR PRESENTATION

OSFSS provides a brief on the development of the heat abatement program.

KSM:lm

c: Office of School Facilities and Support Services

The Road to 1,000 Classrooms Execution Plan

Update: May 11, 2016

Phase I: Assessment and Analysis (Complete)

Consultant teams will go to each of the 32 campuses on the priority heat abatement list to assess the existing conditions in all classrooms. They will also review existing environmental data as well as gather information from school staff.

Based on this information, they will analyze the existing conditions and determine the best approach for each individual classroom.

Phase II: Review and Recommendation (Complete)

Consultants will make recommendations regarding scope of work to be engaged at each site. These recommendations will be thoroughly vetted and reviewed. DOE will then make final determination on how to proceed for each campus.

Based on findings in the field on each campus, project has been divided into specific construction packages, each focused on specific improvements.

Phase III: Design (March 14 – May 27, 2016)

Each consultant team will then produce contract documents to bid out competitively. Depending on each school's plan, the work may be bid out separately in order to expedite as much of the work as possible.

NOTE: FUNDING NEEDS TO BE IN PLACE BEFORE PROJECTS CAN BE PUT OUT TO BID. Notified that \$45M released as of May 13, 2016, but status of additional \$55M is unclear at this time.

The amount and timing of funding was not known until approved on May 5, 2016. Based on current status, and with an emphasis to initiate the air conditioning work first, the project has now been reconfigured as follows to enable the fastest possible implementation:

The Heat Abatement Program is divided into two parts.

- Part I is primarily air conditioning, with only minor other items needed to implement air conditioning. The intent is to install air conditioning units, including many that are PV powered. This is so that we will not increase our \$48 million annual electricity bill.
- Part II will implement various items such as passive cooling measures and energy efficiencies.

Part I is further divided into Part IA and Part IB. Part IA is primarily to provide PV A/C to as many portable classrooms as soon as possible. This is to expedite A/C installations.

Heat Abatement Project, Part IA: This part consists of providing solar powered air conditioning (PV A/C in all portable classrooms that DO NOT already have air conditioning at the top thirty-three (33) schools on the DOE's heat priority list. These schools are (number of portables are in parenthesis):

- Round 1: Ewa Beach ES (1); Aliamanu ES (5); Leihoku ES (13); Nahienaena ES (6); Kekaha ES (2); August Ahrens ES (5)
- Round 2: Kamaile Academy (9); Nanakuli ES (6); Lahaina IS (9); Kahakai ES (6); Waipahu HS (5)
- Round 3: Nanakuli H&IS (1); Lihikai ES (16); Waialua H&IS (9); Waipahu IS (4)
- Round 4: Maui HS (26); Waipahu ES (7)

Total for Part IA – all four rounds = 130 portable classrooms. The estimated cost for this phase is \$5,200,000.

These projects are the most straightforward and quickest to complete and moving them first will allow the project to ‘gain traction’ toward the goal of 1,000 classrooms as quickly as possible.

In addition, heat abatement projects at Campbell High, Ilima Intermediate, and Kaimiloa Elementary Schools are also completing design. These project are funded separately by the Legislature in previous sessions. The first major project – Campbell High and Ilima Intermediate – Buildings O, H and I Heat Abatement is out to bid.

A second project for the Campbell Complex includes providing PV A/C to all 25 portable classrooms that do not already have air conditioning. That project is scheduled to be put out for bid during the week of May 16, 2016.

Part IB is intended to provide A/C in classrooms in permanent buildings that do NOT already have air conditioning and that assessments and analysis has indicated that these rooms cannot be cooled adequately using passive measures alone. The schools are:

Campbell High School,	August Ahrens Elem School
Ilima Intermediate School	Waipahu Elementary School
Kaimiloa Elementary School	Waialua High/Inter School
Ewa Beach Elementary School	Leihoku Elementary School
Kamaile Academy	Honowai Elementary School
Nimitz Elementary School	Nanakuli Elementary School
Mokulele Elementary School	Nanakuli High/Inter School
Pearl Harbor Kai Elem School	Kaunakakai Elementary School
Lehua Elementary School	Kilohana Elementary School
Waimalu Elementary School	Manana Elementary School
Aliamanu Elementary School	Nahienaena Elem
Aliamanu Middle School	Lahaina Inter School
Waipahu High School	Maui High School
Ewa Elementary School	Lihikai Elementary School
Barber’s Point Elem School	Kekaha Elementary School
Waipahu Intermediate School	Kahakai Elementary School
Pearl Harbor Elem School	

While the totals are still being finalized, we expect the number of classrooms to exceed 830. Using \$40,000 as an estimated median per classroom, the total is expected to be \$40 million + \$5 million to cover contingencies.

Total estimated number of classrooms to have A/C installed is approximately 960. Additional schools will be assessed to bring the final classroom count to more than 1,000.

Phase IV: Bidding (March 17, 2016 – July 3, 2016)

Each project will be bid out competitively via the DOE's online system (HePS).

Because it is anticipated that most of the work will take place while school is in session and to speed the process while waiting for funding, the DOE initiated a process to pre-qualify contractors.

- Request for Notice of Intent posted on the State Procurement Office (SPO) website and the Hawaii Electronic Procurement System (HePS) on March 17, 2016; with responses due April 8, 2016.
- Request for Qualifications Phase (RFQ) posted on HePS on April 13, 2016; with responses due April 22, 2016

Pricing Step (underway):

- Campbell High and Ilima Intermediate, Buildings O, H, I Heat Abatement - posted on HePS May 5, 2016; bids due June 1, 2016.
- Round 1 (Bid posted May 13, 2016): Ewa Beach ES (1); Aliamanu ES (5); Leihoku (13); Nahienaena ES (6); Kekaha ES (2); August Ahrens ES (5)
- Round 2 (Bid out May 20, 2016): Kamaile Academy (9); Nanakuli ES (6); Lahaina IS (9); Kahakai ES (6); Waipahu HS (5)
- Round 3 (Bid to be posted May 27, 2016): Nanakuli H&IS (1); Lihikai ES (16); Waialua H&IS (9); Waipahu IS (4)

Phase V: Analysis and Award – Part IA (June 3 – July 1, 2016)

After each project is bid, and bids opened, results are analyzed and recommended for award. Any protests will be dealt with at this time.

Phase VI: Contract Execution – Part IA (July 5 – July 29, 2016)

Once award is recommended, a notification will be sent to the winning contractor. This notice will also include authorization to proceed with the work. This work will include getting all submittals approved and ordering of materials, etc.

Phase VII: Construction – Part IA (August 1 – January 31, 2017)

Construction will take place on the various campuses as materials are available. It is anticipated that availability of long lead items such as air conditioners may be an issue. In addition, the construction schedule is based on the work taking place during the school year. If individual schools request schedule adjustments, it will affect completion schedule.