Smart Schools Investment Plan - 2016-17 Version (Original) - Interactive Whiteboards

SSIP Overview

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Institution ID

800000055126

1. Please enter the name of the person to contact regarding this submission.

Dan Davison

1a. Please enter their phone number for follow up questions.

585-928-2938

1b. Please enter their e-mail address for follow up contact.

ddavison@brcs.wnyric.org

2. Please indicate below whether this is the first submission, a new or supplemental submission or an amended submission of an approved Smart Schools Investment Plan.

First submission

3. All New York State public school districts are required to complete and submit a District Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations. Districts that include investments in high-speed broadband or wireless connectivity and/or learning technology equipment or facilities as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.
By checking this box, you certify that the school district has an approved District Instructional Technology Plan survey on file with the New York State Education Department.

☑ District Educational Technology Plan Submitted to SED and Approved

4. Pursuant to the requirements of the Smart Schools Bond Act, the planning process must include consultation with parents, teachers, students, community members, other stakeholders and any nonpublic schools located in the district.
By checking the boxes below, you are certifying that you have engaged with those required stakeholders. Each box must be checked prior to submitting your Smart Schools Investment Plan.

☑ Parents
☑ Teachers
☑ Students
☑ Community members

4a. If your district contains non-public schools, have you provided a timely opportunity for consultation with these stakeholders?

☐ Yes
☑ No
☐ N/A

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5. Certify that the following required steps have taken place by checking the boxes below: Each box must be checked prior to submitting your Smart Schools Investment Plan.

- ☑ The district developed and the school board approved a preliminary Smart Schools Investment Plan.
- ☑ The preliminary plan was posted on the district website for at least 30 days. The district included an address to which any written comments on the plan should be sent.
- ☑ The school board conducted a hearing that enabled stakeholders to respond to the preliminary plan. This hearing may have occured as part of a normal Board meeting, but adequate notice of the event must have been provided through local media and the district website for at least two weeks prior to the meeting.
- ☑ The district prepared a final plan for school board approval and such plan has been approved by the school board.
- ☑ The final proposed plan that has been submitted has been posted on the district's website.

5a. Please upload the proposed Smart Schools Investment Plan (SSIP) that was posted on the district's website, along with any supporting materials. Note that this should be different than your recently submitted Educational Technology Survey. The Final SSIP, as approved by the School Board, should also be posted on the website and remain there during the course of the projects contained therein.

Final Smart Schools Investment Plan.docx
Updated_Smart_Schools_Investment_Plan.docx

5b. Enter the webpage address where the final Smart Schools Investment Plan is posted. The Plan should remain posted for the life of the included projects.

https://www.brcs.wnyric.org/domain/33

6. Please enter an estimate of the total number of students and staff that will benefit from this Smart Schools Investment Plan based on the cumulative projects submitted to date.

960

7. An LEA/School District may partner with one or more other LEA/School Districts to form a consortium to pool Smart Schools Bond Act funds for a project that meets all other Smart School Bond Act requirements. Each school district participating in the consortium will need to file an approved Smart Schools Investment Plan for the project and submit a signed Memorandum of Understanding that sets forth the details of the consortium including the roles of each respective district.

- ☐ The district plans to participate in a consortium to partner with other school district(s) to implement a Smart Schools project.

8. Please enter the name and 6-digit SED Code for each LEA/School District participating in the Consortium.

Partner LEA/District	SED BEDS Code
(No Response)	(No Response)

9. Please upload a signed Memorandum of Understanding with all of the participating Consortium partners.

(No Response)

10. Your district's Smart Schools Bond Act Allocation is:

$1,184,843

11. Enter the budget sub-allocations by category that you are submitting for approval at this time. If you are not budgeting SSBA funds for a category, please enter 0 (zero.) If the value entered is $0, you will not be required to complete that survey question.

	Sub-Allocations
School Connectivity	43,550

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	Sub-Allocations
Connectivity Projects for Communities	0
Classroom Technology	545,843
Pre-Kindergarten Classrooms	0
Replace Transportable Classrooms	0
High-Tech Security Features	0
Totals:	**589,393**

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1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that:

- **sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or**
- **is a planned use of a portion of Smart Schools Bond Act funds, or**
- **is under development through another funding source.**

Smart Schools Bond Act funds used for technology infrastructure or classroom technology investments must increase the number of school buildings that meet or exceed the minimum speed standard of 100 Mbps per 1,000 students and staff within 12 months. This standard may be met on either a contracted 24/7 firm service or a "burstable" capability. If the standard is met under the burstable criteria, it must be:

1. Specifically codified in a service contract with a provider, and

2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.

Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

In the last 3 months, the district has upgraded the network core and all network switches. We have installed Cicso Catalyst 3850 for 10 Gbps access to all classrooms and buildings in the district. Category 6 UTP cable is run in each building for classroom network drops. Buildings and wiring closets are connected with fiber optic cable. Wireless Access Points are installed in all classrooms and large instructional spaces. The broadband connection to Erie 1 Boces provides access to Internet resources at 10 Gbps. The district currently meets the standard and will continue to monitor and upgrade as needed.

1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	760	76,000	76	10000	10000	Now

3. Describe how you intend to use Smart Schools Bond Act funds for high-speed broadband and/or wireless connectivity projects in school buildings.

The SmartBoards will be installed at the front of each classroom. The equipment will be powered by existing electric already in place at the location, the control of these boards is wireless and the only wiring that will be required is low voltage speaker wire to the ceiling mounted speakers.

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4. Describe the linkage between the district's District Instructional Technology Plan and the proposed projects. (There should be a link between your response to this question and your response to Question 1 in Part E. Curriculum and Instruction "What are the district's plans to use digital connectivity and technology to improve teaching and learning?)

The District's Instructional Technology Plan (2018-2021) does address the district's desire to move to interactive classrooms (ie: interactive SMART Boards, Enhanced classroom audio, document camera, and presentation stations), along with 1 to 1 student devices to allow for this classroom interaction in the future. Such interactive classrooms and 1 to 1 devices will allow instructional staff to teach to multiple learning styles, and help prepare students with 21st century employment skills. (College and Career Ready)

The interactive SMART Boards will allow the teacher to demonstrate concepts easily in a large group setting. Teachers will be able to manipulate images and text using the touch surface of the SMART Board. Students will also be able to move to the front of the class to use the same touch features and be more involved in the lessons.

The interactive displays can connect to the Internet wirelessly and the computer connected to the display will also have internet connection. This will allow virtual field trips and distance learning activities to take place right in the classroom rather than having to move to a special room.

The audio enhancement that will be installed will allow the computer sound to be played through 4 speakers in the ceiling so that all students will be able to hear. The system also comes with a wireless microphone for the teacher to wear and a hand held microphone for students to use when answering or asking a question. These microphones are an integral piece to distance learning activities so that students can interact with the presenter and distant participants.

The SMART document camera will allow teachers and presenters to take photos and video to incorporate into their SMART notebook lessons. Annotations, comments can easily be added to photos and videos. The Mixed Reality cube provides students with a hands-on experience of 3D content. This will help us to reach students who are conceptual learners.

The SMART Learning Suite software allows recording of everything that is happening on the interactive display and the document camera. This is especially useful for students who miss class or want to review. Lessons can also be recorded and played by another person if the teacher is out of the classroom for the day. Students can also access lessons if they have missed class.

The addition of the SMART Kapp IQ module allows students to connect with their own devices and participate in the lesson. The teacher can allow the student to take control of the interactive display right from their own device. Students will be more involved in the lesson and can save the entire lesson for review at another time.

Interactive boards promote various types of learning which will assist students with disabilities and ELL students. This system enhances visual and auditory information that will help students hear correct pronunciations, see correct spellings, and visualize math and science concepts. The connections that can be made through distance learning promote social and communication skills and interactions.

5. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.

Please describe how you have quantified this demand and how you plan to meet this demand.

The district currently has Wireless Access Points in all classrooms and large instructional spaces. The usage of 95% of the Access Points is between 20 Gb and 30 Gb per day. With this plan, we will be adding 67 computers. Most of these 67 computers will connect to the network wirelessly and there is plenty of bandwidth to handle those computers. Should we have connectivity issues related to the number of devices on the WiFi network, we can make adjustments to the guest network during school hours to allow more bandwidth for district devices.

6. As indicated on Page 5 of the guidance, the Office of Facilities Planning will have to conduct a preliminary review of all capital projects, including connectivity projects.
Please indicate on a separate row each project number given to you by the Office of Facilities Planning.

Project Number
02-29-02-04-7-999-BA1

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7. Certain high-tech security and connectivity infrastructure projects may be eligible for an expedited review process as determined by the Office of Facilities Planning.

Was your project deemed eligible for streamlined review?

Yes

7a. Districts that choose the Streamlined Review Process will be required to certify that they have reviewed all installations with their licensed architect or engineer of record and provide that person's name and license number. The licensed professional must review the products and proposed method of installation prior to implementation and review the work during and after completion in order to affirm that the work was code-compliant, if requested.

☑ I certify that I have reviewed all installations with a licensed architect or engineer of record.

8. Include the name and license number of the architect or engineer of record.

Name	License Number
Tom McElheny	59176

9. If you are submitting an allocation for School Connectivity complete this table.
Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Network/Access Costs	43,550
Outside Plant Costs	(No Response)
School Internal Connections and Components	(No Response)
Professional Services	(No Response)
Testing	(No Response)
Other Upfront Costs	(No Response)
Other Costs	(No Response)
Totals:	**43,550**

10. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be eligible for tax-exempt financing to be reimbursed through the SSBA. Sufficient detail must be provided so that we can verify this is the case. If you have any questions, please contact us directly through smartschools@nysed.gov.
NOTE: Wireless Access Points should be included in this category, not under Classroom Educational Technology, except those that will be loaned/purchased for nonpublic schools.
Add rows under each sub-category for additional items, as needed.

Select the allowable expenditure type. Repeat to add another item under each type.	Item to be purchased	Quantity	Cost per Item	Total Cost
Network/Access Costs	Installation of SmartBoards and audio equipment	67	650	43,550

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1. In order for students and faculty to receive the maximum benefit from the technology made available under the Smart Schools Bond Act, their school buildings must possess sufficient connectivity infrastructure to ensure that devices can be used during the school day. Smart Schools Investment Plans must demonstrate that sufficient infrastructure that meets the Federal Communications Commission's 100 Mbps per 1,000 students standard currently exists in the buildings where new devices will be deployed, or is a planned use of a portion of Smart Schools Bond Act funds, or is under development through another funding source.
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1. Specifically codified in a service contract with a provider, and
2. Guaranteed to be available to all students and devices as needed, particularly during periods of high demand, such as computer-based testing (CBT) periods.
Please describe how your district already meets or is planning to meet this standard within 12 months of plan submission.

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1a. If a district believes that it will be impossible to meet this standard within 12 months, it may apply for a waiver of this requirement, as described on the Smart Schools website. The waiver must be filed and approved by SED prior to submitting this survey.

☐ By checking this box, you are certifying that the school district has an approved waiver of this requirement on file with the New York State Education Department.

2. Connectivity Speed Calculator (Required)

	Number of Students	Multiply by 100 Kbps	Divide by 1000 to Convert to Required Speed in Mb	Current Speed in Mb	Expected Speed to be Attained Within 12 Months	Expected Date When Required Speed Will be Met
Calculated Speed	760	76,000	76	10000	10000	Now

3. If the district wishes to have students and staff access the Internet from wireless devices within the school building, or in close proximity to it, it must first ensure that it has a robust Wi-Fi network in place that has sufficient bandwidth to meet user demand.
Please describe how you have quantified this demand and how you plan to meet this demand.

The district currently has Wireless Access Points in all classrooms and large instructional spaces. The usage of 95% of the Access Points is between 20 Gb and 30 Gb per day. With this plan, we will be adding 67 computers. Most of these 67 computers will connect to the network wirelessly and there is plenty of bandwidth to handle those computers. Should we have connectivity issues related to the number of devices on the WiFi network, we can make adjustments to the guest network during school hours to allow more bandwidth for district devices.

4. All New York State public school districts are required to complete and submit an Instructional Technology Plan survey to the New York State Education Department in compliance with Section 753 of the Education Law and per Part 100.12 of the Commissioner's Regulations.
Districts that include educational technology purchases as part of their Smart Schools Investment Plan must have a submitted and approved Instructional Technology Plan survey on file with the New York State Education Department.

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5. Describe the devices you intend to purchase and their compatibility with existing or planned platforms or systems. Specifically address the adequacy of each facility's electrical, HVAC and other infrastructure necessary to install and support the operation of the planned technology.

The current ceiling projectors in each classroom will be replaced with an interactive SMART Board. The SMART Boards will be mounted over a section of the white board in the front of each classroom. An audio system with 4 ceiling speakers will be installed to enhance computer audio and also allow teachers and students to speak through microphones to be heard clearly throughout the room. A presentation station will be installed in each classroom with a computer and document camera. This computer and document camera will connect to the SMART Board for whole class instruction.

The district already has a subscription to the SMART Learning Suite which is the software used with the SMART Boards. Teachers are currently using the software without the interactive piece that the SMART Board will add.

6. Describe how the proposed technology purchases will:

- **> enhance differentiated instruction;**
- **> expand student learning inside and outside the classroom;**
- **> benefit students with disabilities and English language learners; and**
- **> contribute to the reduction of other learning gaps that have been identified within the district.**

The expectation is that districts will place a priority on addressing the needs of students who struggle to succeed in a rigorous curriculum. Responses in this section should specifically address this concern and align with the district's Instructional Technology Plan (in particular Question 2 of E. Curriculum and Instruction: "Does the district's instructional technology plan address the needs of students with disabilities to ensure equitable access to instruction, materials and assessments?" and Question 3 of the same section: "Does the district's instructional technology plan address the provision of assistive technology specifically for students with disabilities to ensure access to and participation in the general curriculum?"

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Interactive boards promote various types of learning which will assist students with disabilities and ELL students. This system enhances visual and auditory information that will help students hear correct pronunciations, see correct spellings, and visualize math and science concepts. The connections that can be made through distance learning promote social and communication skills and interactions.

7. Where appropriate, describe how the proposed technology purchases will enhance ongoing communication with parents and other stakeholders and help the district facilitate technology-based regional partnerships, including distance learning and other efforts.

The addition of the interactive displays, presentation computers and audio system will allow distance learning opportunities right in the classrooms. Virtual field trips can be attended and students will be able to communicate easily from their seats using the microphones. Currently there is one classroom setup for distance learning activities. With this installation, we expect our distance learning and virtual field trips to expand.

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8. Describe the district's plan to provide professional development to ensure that administrators, teachers and staff can employ the technology purchased to enhance instruction successfully.

Note: This response should be aligned and expanded upon in accordance with your district's response to Question 1 of F. Professional Development of your Instructional Technology Plan: "Please provide a summary of professional development offered to teachers and staff, for the time period covered by this plan, to support technology to enhance teaching and learning. Please include topics, audience and method of delivery within your summary."

Although not included in the Smart Schools money, we are committed to providing comprehensive staff development on all aspects that our administration & teachers will be expected to use and incorporate into their curriculum, instruction & assessment designs. This training will include, but not limited to: Office 365 Training, Flipping with Office Mix, Smart Panel training, tablet training, ongoing iPad training, internet safety (i-Safe), & One Note. These sessions will be offered as developmentally appropriate to our prek-12 audiences, small and flexible groupings will be utilized. Some may be webinars, but the majority of all trainings will be in the format of instructor/trainer to audience offered in-house by our technology or curriculum directors, offered by CA or ERIE 1 BOCES at their training sites as appropriate. Ongoing follow up and implementation along with surveys and needs assessments will be provided.

Based on these surveys, we will use the early release time on Wednesday afternoons to complete most of the training. Six teachers in the district already have SMART Boards and SMART document cameras and have been extensively trained. We will use them as trainers, especially with other teachers in their subject or grade level area.

Occasionally we have technology share sessions, where no formal training is scheduled, but teachers share what they are doing in their classrooms with technology, what apps are working best, and ideas for collaboration. These informal sessions will continue and expand as we introduce more technology into the classrooms.

9. Districts must contact the SUNY/CUNY teacher preparation program that supplies the largest number of the district's new teachers to request advice on innovative uses and best practices at the intersection of pedagogy and educational technology.

☑ By checking this box, you certify that you have contacted the SUNY/CUNY teacher preparation program that supplies the largest number of your new teachers to request advice on these issues.

9a. Please enter the name of the SUNY or CUNY Institution that you contacted.

Fredonia State University of New York

9b. Enter the primary Institution phone number.

716-673-3111

9c. Enter the name of the contact person with whom you consulted and/or will be collaborating with on innovative uses of technology and best practices.

Christine Givner, PhD.

10. A district whose Smart Schools Investment Plan proposes the purchase of technology devices and other hardware must account for nonpublic schools in the district.

Are there nonpublic schools within your school district?

☐ Yes
☑ No

11. Nonpublic Classroom Technology Loan Calculator

The Smart Schools Bond Act provides that any Classroom Learning Technology purchases made using Smart Schools funds shall be lent, upon request, to nonpublic schools in the district. However, no school district shall be required to loan technology in amounts greater than the total obtained and spent on technology pursuant to the Smart Schools Bond Act and the value of such loan may not exceed the total of $250 multiplied by the nonpublic school enrollment in the base year at the time of enactment.

See:

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http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf.

	1. Classroom Technology Sub-allocation	2. Public Enrollment (2014-15)	3. Nonpublic Enrollment (2014-15)	4. Sum of Public and Nonpublic Enrollment	5. Total Per Pupil Sub-allocation	6. Total Nonpublic Loan Amount
Calculated Nonpublic Loan Amount	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)	(No Response)

12. To ensure the sustainability of technology purchases made with Smart Schools funds, districts must demonstrate a long-term plan to maintain and replace technology purchases supported by Smart Schools Bond Act funds. This sustainability plan shall demonstrate a district's capacity to support recurring costs of use that are ineligible for Smart Schools Bond Act funding such as device maintenance, technical support, Internet and wireless fees, maintenance of hotspots, staff professional development, building maintenance and the replacement of incidental items. Further, such a sustainability plan shall include a long-term plan for the replacement of purchased devices and equipment at the end of their useful life with other funding sources.

☑ By checking this box, you certify that the district has a sustainability plan as described above.

13. Districts must ensure that devices purchased with Smart Schools Bond funds will be distributed, prepared for use, maintained and supported appropriately. Districts must maintain detailed device inventories in accordance with generally accepted accounting principles.

☑ By checking this box, you certify that the district has a distribution and inventory management plan and system in place.

14. If you are submitting an allocation for Classroom Learning Technology complete this table.
Note that the calculated Total at the bottom of the table must equal the Total allocation for this category that you entered in the SSIP Overview overall budget.

	Sub-Allocation
Interactive Whiteboards	315,933
Computer Servers	0
Desktop Computers	40,870
Laptop Computers	0
Tablet Computers	0
Other Costs	189,040
Totals:	**545,843**

15. Please detail the type, quantity, per unit cost and total cost of the eligible items under each sub-category. This is especially important for any expenditures listed under the "Other" category. All expenditures must be capital-bond eligible to be reimbursed through the SSBA. If you have any questions, please contact us directly through smartschools@nysed.gov.
Please specify in the "Item to be Purchased" field which specific expenditures and items are planned to meet the district's nonpublic loan requirement, if applicable.
NOTE: Wireless Access Points that will be loaned/purchased for nonpublic schools should ONLY be included in this category, not under School Connectivity, where public school districts would list them.
Add rows under each sub-category for additional items, as needed.

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
Interactive Whiteboards	SMART Board 6065 with IQ and SMART Learning Suite (audio to be added) (Part#: SPNL-6265-V2)	17	3,999	67,983
Interactive Whiteboards	SMART Board 6065 with IQ and SMART Learning Suite (no audio to be added) (Part#: SPNL-6265-V2)	2	3,999	7,998
Interactive Whiteboards	SMART Board 6075 with IQ and SMART Learning Suite (audio to be added) (SPNL-6275)	42	4,999	209,958
Interactive Whiteboards	SMART Board 6075 with IQ and SMART Learning Suite (no audio to be added) (Part#: SPNL-6275)	4	4,999	19,996
Interactive Whiteboards	SMART Board 6075 with IQ and SMART Learning Suite (audio to be added) (SPNL-6275) for Pre-K	2	4,999	9,998
Desktop Computers	Dell Optiplex 3050 SFF (or comparable), 8GB RAM, 500 GB hard drive	67	610	40,870
Other Costs	Audio System: Sentinel XD System Pal - 4 Ceiling Speakers (KIT) (Part#: 1000-1003)	61	1,600	97,600
Other Costs	Rail system and mount for Interactive Flat panel (Part#:RS-IFP)	67	380	25,460
Other Costs	Computer Wire: 15ft select high speed HDMI cable with Ethernet M/M-In-Wall CL2-Rated (Part#: HDMI015)	67	20	1,340
Other Costs	Speaker Wire: 100FT roll 18AWG/2C Shelded Plenum (Part#: CMP-18/2-100)	61	30	1,830
Other Costs	ACM Installation Hardware Supplement (Part#: ACM-HW)	1	165	165
Other Costs	SMART Document Camera (Brand: SMART Part#: SMART Document Camera-550)	67	700	46,900
Other Costs	Lecture/Presentation Carts for computers and document cameras (Brand: ACP Direct: Item#: WB-811053 Jumbo Presentation Cart & Dual Adjustable Shelves)	67	200	13,400
Other Costs	Surge Protected 7-outlet Electrical Assembly 25' heavy-duty cord (To be	67	35	2,345

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Select the allowable expenditure type. Repeat to add another item under each type.	Item to be Purchased	Quantity	Cost per Item	Total Cost
	attached to presentation carts) (part#: WB-670003)			