


RESOLUTION No. 30982

A RESOLUTION endorsing a Hazard Mitigation Grant Application for Seismic Upgrades to the Queen Anne Community Center and Facility Gas Shut-off Valves on city buildings.

4/24/07 - passed unanimously 30 yes,
Conlin, Licata, Clark

Introduced: 4.23.07	By: Richard Conlin
Referred: 4.23.07	To: Environment, Emergency Mgmt + Utilities
Referred:	To:
Reported: 4-20-07	
Passed: 4-30-07	Signed:  4-30-07
Filed: 5.7.07	Published: Title 2

4-30-07 Adopted 9-0

RESOLUTION _____

A RESOLUTION endorsing a Hazard Mitigation Grant Application for Seismic Upgrades to the Queen Anne Community Center and Facility Gas Shut-off Valves on city buildings.

WHEREAS, the November 2006 heavy rain and flooding event has been granted a Presidential Disaster Declaration (DR-1671); and

WHEREAS, this Declaration has made the City of Seattle eligible for Washington State Emergency Management grant funds through a state-wide competitive application process under the Hazard Mitigation Grant Program (HMGP); and

WHEREAS, the Seattle Mitigation Work Group (MWG) has convened under the procedures adopted by the Council as part of the Seattle All-Hazard Mitigation Plan; and

WHEREAS, the MWG has identified two priority projects that meet the HMGP guidelines and criteria, as well as fitting into the city-wide goals and criteria set out in the Seattle All-Hazard Mitigation Plan designed to reduce our vulnerability to natural hazards; and

WHEREAS, the HMGP procedures require two public meetings and two public announcements as part of the application process, and consideration and passage of a resolution of endorsement by the City Council is an appropriate step in meeting those guidelines; NOW, THEREFORE,

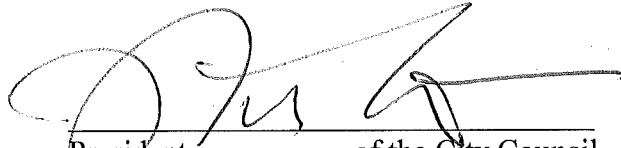
**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SEATTLE, THE
MAYOR CONCURRING, THAT:**

Section 1. The City Council has considered in an open meeting of the Environment, Emergency Management, and Utilities Committee, the proposed projects and has included the opportunity for public comment on the Committee agenda.



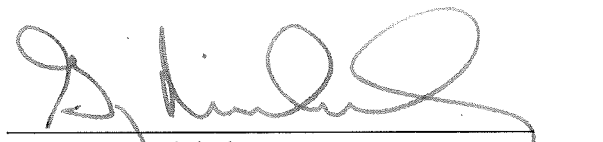
Section 2. The City Council endorses the submission of an application for funding to the HGMP for two projects, Seismic Upgrades to the Queen Anne Community Center and Facility Gas Shut-off Valves as described in attachments 1 and 2.

Adopted by the City Council the 30th day of April, 2007, and signed by me in open session in authentication of its adoption this 30th day of April, 2007.



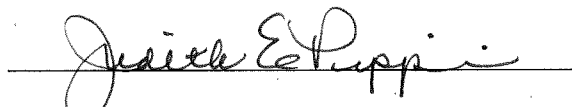
President _____ of the City Council

THE MAYOR CONCURRING:



Gregory J. Nickels, Mayor

Filed by me this 7 day of May, 2007.



City Clerk

(Seal)

Attachments:

Attachment 1- Facility Gas Shut-off Valves

Attachment 2 – Queen Anne Community Center Seismic Upgrade



Hazard Mitigation Grant Program (HMGP) 2007 Internal Project Proposals

Submitted by: Fleets and Facilities
 Date: February 16, 2007
 Point of contact: Cory Davis, Capital Projects Planning Coordinator
 Ken Bailey, Fleets

Title: Facility Gas Shut-off Valves
 Project ID #: FFD 0701
 Estimate Cost: \$200,000 – FFD facilities (could potentially include other dept. facilities)

Project Description:

This project provides for the installation of automatic shut-off valves on natural gas lines to FFD buildings. The valves automatically close in event of a significant structural event, thereby avoiding a release of gas inside the structure if there is damage to piping or appliances. This helps to prevent a possible explosion or fire as a secondary effect of the event. Auto shut-off valves are recommended by FM Global, the leading insurer of commercial buildings worldwide.

Priority Criteria:

Indicate in a few sentences how the proposed project matches with the priority criteria below.

City Mitigation Priority Ranking (See Table 4-3 in Mitigation Plan)	
#	Description of the Criteria
1	Public Health and Safety The project preserves public safety by preventing the loss of critical public safety facilities such as police precincts and fire stations.
2	Benefit/Cost Analysis – initial thoughts on cost-effectiveness Cost of installation is minor: a few thousand dollars, very little time and no disruption to daily operations. The benefits could be in the millions—a rebuild of the main vehicle maintenance shop for example has been estimated at \$60M.
3	Criticality of infrastructure, building or network There are no vendors or auxiliary functions in the area capable of replacing the emergency response and disaster recovery work load carried on at these buildings. Loss of use would severely hamper emergency services in a catastrophic event.
4	Vulnerability of facility/system/function These buildings have extensive natural gas piping and appliances with ample opportunities for leaks to develop upon a significant earthquake. Furthermore, these buildings have multiple ignition sources, including hot work (welding, cutting, grinding) that is carried out on a daily basis. The likelihood of a fire resulting from an earthquake is higher at these facilities than most other buildings.



5	<p>Hazard(s) addressed – to be used to calculate level of hazard risk</p> <p>This project addresses the hazard of a fire resulting from an earthquake either starting from or being sustained by natural gas escaping from damaged piping.</p>
6	<p>Economic Impact – if project not completed</p> <p>If a fire did result from the hazard, the damage would be significant and cost dependent on extent of that. Though the buildings have sprinklers, the intensity of a fire from such a source could overwhelm the capability of the fire suppression systems. Furthermore, such systems offer no protection from sudden explosions, often triggered by ignition of escaped natural gas.</p>
7	<p>Public Involvement – in identification of project/problem</p> <p>None</p>
8	<p>Other factors – e.g. social or environmental impact, legal liability, high visibility</p> <p>None</p>

Hazard Mitigation Grant Program (HMGP) 2007 Internal Project Proposals

Submitted by: Seattle Parks and Recreation Department
Date: February 7, 2007
Point of contact: Becky Rufin, P.E., 206-233-3870

Title: Queen Anne Community Center Seismic Upgrade
Project ID #: Parks 2007-1
Estimate Cost: \$400,000

Project Description:

This 1949 facility serves as a community center and designated emergency shelter as stated in the City and Park Department Emergency Preparedness Plans. Based upon a January 1993 EQE Engineering and Design report and ASCE 31-03 (AKA FEMA 178), seismic hazards exist in the C2A class building structure as follows:

1. Plan Irregularities exist, (Section 4.5.1.7 ASCE 31-03) along the east side of the building, where there are no shear walls.
2. Out of Plane Loads with no positive means of connections for loads between the wood roof diaphragms and concrete walls.
3. Documented inadequate connections between concrete beam(s) above the column(s) at the roof level (EQE Engineering and Design Report)
4. Inadequate connection between concrete slab walkway cover and adjacent building

Mitigation work consists of upgrading roof deck diaphragm and building component connections.

Priority Criteria:

Indicate in a few sentences how the proposed project matches with the priority criteria below.

City Mitigation Priority Ranking (See Table 4-3 in Mitigation Plan)	
#	Description of the Criteria
1	Public Health and Safety The public is at risk since the building is at least 15% under the required design strength (FEMA 178, ASCE 31-03), an important factor for its designated emergency shelter status as well as its daily use.
2	Benefit/Cost Analysis – initial thoughts on cost-effectiveness Mitigation investment would reduce or prevent expensive repairs precipitated by a major earthquake and prevent potential loss of life, based on current occupancy A-3 IBC and IBC 2003 TBL 1004.1.2 shelter use criteria. Benefit to cost ratio highly dependent on risk assumptions, but is at least 10:1.



3	<p>Criticality of infrastructure, building or network</p> <p>In addition to its daily use for community activities, the Queen Anne Community Center is designated as an Emergency Shelter and is the only designated Emergency shelter in the area.</p>
4	<p>Vulnerability of facility/system/function</p> <p>Vulnerable to damage due to seismic events, causing torsional and roof connection failures which would prevent its use as public shelter and coordination center to area residents and recovery teams.</p>
5	<p>Hazard(s) addressed – to be used to calculate level of hazard risk</p> <p>Roof and torsional building collapse likely to cause casualties since the site is generally occupied, therefore costs are reconstruction and collateral lawsuits.</p>
6	<p>Economic Impact – if project not completed</p> <p>Risk of severe damage and injuries in the event of a large earthquake event, entailing repair costs in the low millions as well as exposure to lawsuits.</p>
7	<p>Public Involvement – in identification of project/problem</p> <p>Adopted State and Federal public involvement policies for public building process are mandated by City policy for all City Projects.</p>
8	<p>Other factors – e.g. social or environmental impact, legal liability, high visibility</p> <p>This is the only shelter and ADA accessible site in the Queen Anne area for post disaster community shelter services and public coordination.</p>

FISCAL NOTE FOR NON-CAPITAL PROJECTS

Department:	Contact Person/Phone:	DOF Analyst/Phone:
Legislative	Mike Fong/5-1675	N/A

Legislation Title: endorsing a Hazard Mitigation Grant Application for Seismic Upgrades to the Queen Anne Community Center and Facility Gas Shut-off Valves on city buildings.

• **Summary of the Legislation:**

The resolution expresses the Council's support for the City's submission of applications for Washington State Emergency Management grant funds under the Hazard Mitigation Grant Program.

- **Background:** *(Include brief description of the purpose and context of legislation and include record of previous legislation and funding history, if applicable):*

WHEREAS, the November 2006 heavy rain and flooding event has been granted a Presidential Disaster Declaration (DR-1671); and

WHEREAS, this Declaration has made the City of Seattle eligible for Washington State Emergency Management grant funds through a state-wide competitive application process under the Hazard Mitigation Grant Program (HMGP); and

WHEREAS, the Seattle Mitigation Work Group (MWG) has convened under the procedures adopted by the Council as part of the Seattle All-Hazard Mitigation Plan; and

WHEREAS, the MWG has identified two priority projects that meet the HMGP guidelines and criteria, as well as fitting into the city-wide goals and criteria set out in the Seattle All-Hazard Mitigation Plan designed to reduce our vulnerability to natural hazards; and

WHEREAS, the HMGP procedures require two public meetings and two public announcements as part of the application process, and consideration and passage of a resolution of endorsement by the City Council is an appropriate step in meeting those guidelines; NOW, THEREFORE,

- *Please check one of the following:*

X **This legislation does not have any financial implications.** *(Stop here and delete the remainder of this document prior to saving and printing.)*



STATE OF WASHINGTON – KING COUNTY

--SS.

210963
CITY OF SEATTLE, CLERKS OFFICE

No.

Affidavit of Publication

The undersigned, on oath states that he is an authorized representative of The Daily Journal of Commerce, a daily newspaper, which newspaper is a legal newspaper of general circulation and it is now and has been for more than six months prior to the date of publication hereinafter referred to, published in the English language continuously as a daily newspaper in Seattle, King County, Washington, and it is now and during all of said time was printed in an office maintained at the aforesaid place of publication of this newspaper. The Daily Journal of Commerce was on the 12th day of June, 1941, approved as a legal newspaper by the Superior Court of King County.

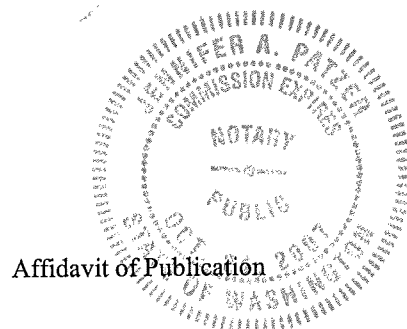
The notice in the exact form annexed, was published in regular issues of The Daily Journal of Commerce, which was regularly distributed to its subscribers during the below stated period. The annexed notice, a

CT:30982 TITLE ONLY

was published on

05/09/07

The amount of the fee charged for the foregoing publication is the sum of \$ 27.90, which amount has been paid in full.



Affidavit of Publication

Subscribed and sworn to before me on

05/09/07

Notary public for the State of Washington,
residing in Seattle

State of Washington, King County

City of Seattle

TITLE-ONLY PUBLICATION

The full text of the following resolutions, passed by the City Council on April 30, 2007, and published here by title only, will be mailed upon request, or can be accessed electronically at <http://clerk.ci.seattle.wa.us>. For further information, contact the Seattle City Clerk at 684-8344.

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Publication ordered by JUDITH PIPPIN,
City Clerk

Date of publication in the Seattle Daily
Journal of Commerce, May 9, 2007.
6/9(210963)