



**COMMISSION
AGENDA MEMORANDUM**

Item No. 6g

ACTION ITEM

Date of Meeting December 10, 2019

DATE: December 3, 2019

TO: Stephen P. Metruck, Executive Director

FROM: Jeffrey Brown, Director, Aviation Facilities and Capital Programs
Wayne Grotheer, Director, Aviation Project Management Group

SUBJECT: Emergency Generator Controls Project (CIP C800784) (Short Form)

Amount of this request: \$200,000

Total estimated project cost: \$2,500,000

ACTION REQUESTED

Request Commission authorization for the Executive Director to increase project authorization by \$200,000 to support design and construction for the Emergency Generator Controls Upgrade project at Seattle-Tacoma International Airport. Total project authorization is \$1,000,000, for a total estimated project cost of \$2,500,000.

SUMMARY

This project will provide for the renewal and replacement of the existing control system and thereby extend the useful life of the generators that provide emergency electrical power to Concourses B, C, D, the Central Terminal, and the North and South Satellites. Emergency power is legally required for egress lighting within the terminal buildings and at other locations where interruption of power could produce life safety hazards. While the diesel engine generators are in good working condition, the manufacturer has discontinued support for the microprocessor-based control system and no longer provides technical support or replacement parts. Additionally, this project will install a load bank necessary for system compliance testing in a way that will not disturb normal power distribution or interrupt airport operations.

The Airport Building Department has determined that all emergency power systems within the generator and control rooms must be brought up to current building codes when the new control system is installed. This authorization will be utilized to perform an assessment of these locations and determine associated costs to bring the facilities up to current mechanical, electrical, fire, and building codes. This assessment will include full analysis of existing systems, not included in the original scope, but required by the authority having jurisdiction. Staff currently estimates an additional \$1,800,000, for a total estimated project cost of \$4,300,000, will be necessary to complete this project. After the assessment has been completed, staff will return to Commission for authorization as required.

Meeting Date: December 10, 2020

There are no attachments to this memo.