# THE THIRTIETH LEGISLATURE APPLICATION FOR GRANTS

# **CHAPTER 42F, HAWAII REVISED STATUTES**

| Т  | ype of Grant Request:   |   |  |
|--|---|---|--|
| Opera  | ting Cap  | oital   |  |
| Legal Name of Requesting Organization or   | Individual: Dba:  |   |  |
| Pacific Fleet Submarine Memorial Association   | USS Bowfin St   | ubmarine Museum & Pa  | nrk  |
| Amount of State Full   | nds Requested: \$500.000  | 0.00  |  |
| Brief Description of Request (Please attach wor  |   |   | The state of the s |
| Pacific Fleet Submarine Memorial Association (Submarine Museum & Park is undergoing a mafocus on STEM education, Hawaiian history, and 400,000 annual museum visitors, but they will propportunities and they will inspire a new general | ajor renovation project is comp<br>nd gender equality. These exh<br>provide local students with acc | pletely redesigning mus<br>ibits will not only impac<br>cess to world-class STE | eum exhibits with a<br>t the more than<br>M education  |
| Amount of Other Funds Available:   | Total amount  | of State Grants Rece  | ived in the Past 5   |
| State: \$215000  | Fiscal Years:   |   |  |
| Federal: \$0   | \$ <u>215000</u>  |   |  |
| County: \$0  | Unrestricted A  | Assets:   |  |
| Private/Other: \$6532000   | \$6532000   |   | ···  |
|  |   |   |  |
| New Service (Presently Does Not  | Exist): Existing S  | ervice (Presently in  | Operation):  |
| Type of Business Entity:   | Mailing Addr  | ess:  |  |
| 501(C)(3) Non Profit Corporation   | 11 Arizona D  | rive  |  |
| Other Non Profit   | City:   | State:  | Zip:   |
| Other  | Honolulu  | HI  | 96818  |
| Contact Person for Matters Involving thi Charles K. Merkel Jr  | s Application   |   |  |
| Name:  | Title:  |   |  |
| Charles Merkel   | Executive Di  | rector  |  |
| Email: executivedirector@bowfin.org  | Phone: 8084231341   |   |  |
| executive director (@ bownin.org   | 0004231041  |   |  |
| Federal Tax ID#:   | State Tax ID  | #   |  |
| Ca   | ptain Charles Merkel  | 1/  | 11/19  |
| Authorized Signature   | Name and Title  | 1/12/19 4:29  | Date Signed  |

# **Application Submittal Checklist**

The following items are required for submittal of the grant application. Please verify and check off that the items have been included in the application packet.

 $\boxtimes$ 1) Certificate of Good Standing (If the Applicant is an Organization)  $\boxtimes$ 2) Declaration Statement  $\boxtimes$ 3) Verify that grant shall be used for a public purpose X 4) Background and Summary 5) Service Summary and Outcomes  $\boxtimes$ 6) Budget a) Budget request by source of funds (Link) b) Personnel salaries and wages (Link) c) Equipment and motor vehicles (Link) d) Capital project details (Link) e) Government contracts, grants, and grants in aid (Link)  $\boxtimes$ 7) Experience and Capability X 8) Personnel: Project Organization and Staffing

Execution Director PRIMA

Charles Merkel

1/18/2019



# **Department of Commerce and Consumer Affairs**

#### CERTIFICATE OF GOOD STANDING

I, the undersigned Director of Commerce and Consumer Affairs of the State of Hawaii, do hereby certify that

PACIFIC FLEET SUBMARINE MEMORIAL ASSOCIATION, INC.

was incorporated under the laws of Hawaii on 12/22/1978; that it is an existing nonprofit corporation; and that, as far as the records of this Department reveal, has complied with all of the provisions of the Hawaii Nonprofit Corporations Act, regulating domestic nonprofit corporations.

COMMERCE AND COASEMEN A PRAMAIL OF HAWAII

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Department of Commerce and Consumer Affairs, at Honolulu, Hawaii.

Dated: January 11, 2019

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**Director of Commerce and Consumer Affairs** 

## DECLARATION STATEMENT OF APPLICANTS FOR GRANTS PURSUANT TO CHAPTER 42F, HAWAI'I REVISED STATUTES

The undersigned authorized representative of the applicant certifies the following:

- 1) The applicant meets and will comply with all of the following standards for the award of grants pursuant to Section 42F-103, Hawai'i Revised Statutes:
  - a) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant is awarded;
  - b) Complies with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
  - c) Agrees not to use state funds for entertainment or lobbying activities; and
  - d) Allows the state agency to which funds for the grant were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and ensuring the proper expenditure of the grant.
- 2) If the applicant is an organization, the applicant meets the following requirements pursuant to Section 42F-103, Hawai'i Revised Statutes:
  - a) Is incorporated under the laws of the State; and
  - b) Has bylaws or policies that describe the manner in which the activities or services for which a grant is awarded shall be conducted or provided.
- 3) If the applicant is a non-profit organization, it meets the following requirements pursuant to Section 42F-103, Hawai'i Revised Statutes:
  - a) Is determined and designated to be a non-profit organization by the Internal Revenue Service; and
  - b) Has a governing board whose members have no material conflict of interest and serve without compensation.

Pursuant to Section 42F-103, Hawai'i Revised Statutes, for grants used for the acquisition of land, when the organization discontinues the activities or services on the land acquired for which the grant was awarded and disposes of the land in fee simple or by lease, the organization shall negotiate with the expending agency for a lump sum or installment repayment to the State of the amount of the grant used for the acquisition of the land.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

| Pacific Fleet Submarine Memorial Association_ |                    |
|---|--------------------|
| (Typed Name of Individual or Aganization)     |                    |
| (Signature)                                   | 1.10.2019(Date)    |
| Charles K. Merkel                             | Executive Director |
| (Typed Name)                                  | (Title)            |

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#### Public Purpose – Pacific Fleet Submarine Memorial Association

This grant will be used for a public purpose pursuant to Section 42F-102, Hawaii Revised Statutes.

Captain Charles K. Merkel

**Executive Director** 

1/16/2019

Date

**§42F-102** Applications for grants. Requests for grants shall be submitted to the appropriate standing committees of the legislature at the start of each regular session of the legislature. Each request shall state:

- (1) The name of the requesting organization or individual;
- (2) The public purpose for the grant;
- (3) The services to be supported by the grant;
- (4) The target group; and
- (5) The cost of the grant and the budget. [L 1997, c 190, pt of §3; am L 2014, c 96, §6]

# **Application for Grants**

If any item is not applicable to the request, the applicant should enter "not applicable".

#### I. Certification – Please attach immediately after cover page

#### 1. Certificate of Good Standing (If the Applicant is an Organization)

If the applicant is an organization, the applicant shall submit one (1) copy of a certificate of good standing from the Director of Commerce and Consumer Affairs that is dated no earlier than December 1, 2018.

#### 2. Declaration Statement

The applicant shall submit a declaration statement affirming its compliance with Section 42F-103, Hawaii Revised Statutes. (Link)

#### 3. Public Purpose

The applicant shall specify whether the grant will be used for a public purpose pursuant to Section 42F-102, Hawaii Revised Statutes. (Link)

# II. Background and Summary

This section shall clearly and concisely summarize and highlight the contents of the request in such a way as to provide the State Legislature with a broad understanding of the request. Please include the following:

#### 1. A brief description of the applicant's background;

The Pacific Fleet Submarine Memorial Association (PFSMA) is an IRS 501(c)(3) tax-exempt nonprofit organization formed in 1978. The PFSMA does business as the USS Bowfin Submarine Museum & Park at Pearl Harbor.

Forty years ago, the Pacific Fleet Submarine Memorial Association (PFSMA) was formed with the mission of telling the stories of our Silent Service, the men and women that comprise the US submarine force. A year later, the PFSMA acquired the USS Bowfin, a WWII submarine known as the "Pearl Harbor Avenger" and, by the end of 1980, the USS Bowfin Submarine Museum & Park was formed at Pearl Harbor.

The Pacific Fleet Submarine Memorial Association was created with the purpose of preserving and sharing the stories of submarine veterans. Due to the secretive nature of submarine warfare and the advanced technologies employed, the stories of submarine veterans are at great risk of being lost to history. As one of few submarine museums in the nation and the most visited

| Applicant | Pacific Fleet | Submarine Memorial | Association |
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submarine museum in the world, the USS Bowfin Submarine Museum & Park is in a unique and indispensable position to give a voice to the Silent Service.

Along with the USS Arizona Memorial, the Battleship Missouri Memorial, and the Pacific Aviation Museum Pearl Harbor, the USS Bowfin Submarine Museum & Park completes the Pearl Harbor Historic Sites, a major tourist destination for the state of Hawaii. Since PFSMA's formation, over 9 million visitors have explored our campus and engaged with our history. Every year, over 400,000 ticketed visitors walk on the USS Bowfin or tour our museum.

In addition to maintaining the museum, PFSMA oversees a robust education program and multiple scholarship programs. PFSMA's full-time education staff coordinates student tours and classroom visits, while also producing materials for student engagement. PFSMA also oversees the USS Bowfin Memorial Scholarship program, which has awarded over \$900,000 to Hawaii-based submariners and their families since 1985. PFSMSA recently established a partnership with the Hawaii Community Foundation to administer this scholarship. In 2018, PFSMA established a \$50,000 scholarship endowment with the Pauahi Foundation, which awards scholarships to Native Hawaiian students studying business or science.

PFSMA employs 79 full-time employees and had a net payroll of over \$2.1M in 2018. PFSMA paid \$164,185 in General Excise Tax and nearly \$189,916 in payroll taxes in 2018.

The USS Bowfin Submarine Museum & Park honors our veterans, educates our students, connects us with our history, and inspires us with stories of bravery, innovation, and sacrifice.

#### 2. The goals and objectives related to the request;

After over 30 years as one of the State's most popular tourist destinations, the USS Bowfin Submarine Museum & Park needs to make improvements to continue serving our community and providing a top-quality education experience for local students.

In an effort to address our needs and expand our reach, the USS Bowfin Submarine Museum & Park is undertaking a renovation plan that will put a greater emphasis on STEM education, community stories, and equality in the submarine force. As part of this effort, the museum will be renamed the Pacific Fleet Submarine Museum at Pearl Harbor, which better reflects our scope and mission.

The new museum will be more accessible, more engaging, and it will have a much greater focus on education, with a large focus on STEM (Science, Technology, Engineering, and Mathematics) and interactive learning modules.

Our goal is to make our updated museum a catalyst for learning. We want local students to be inspired when they enter our museum and we want to give them the tools to continue their learning long after they leave. We want students to find science, technology, engineering, and math interesting and important; we want students to understand how their own culture shaped history; we want students to explore their curiosities and we want to give students the tools and

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resources to do so. Through this project, we are creating a learning center for local students that will inspire and engage.

After walking through a dramatic, redesigned entryway, visitors will begin their journey in the moments after the attack on Pearl Harbor. In the first of three main galleries, visitors will learn about the role that submarines played in WWII. They will see artifacts from the era and interact with immersive displays that highlight the devastation of the attack and the US response. This will include interactive exhibits about how sonar and radar work, as well as firsthand accounts from those that experienced the attack.

As they enter the second museum gallery, they will learn about the role that submarines played in the Cold War. This section will focus on the technological developments and secrecy that defined the nuclear age. Visitors and students will engage with educational exhibits designed to teach how navigation, propulsion, and missiles work.

The third gallery will educate visitors about the present and future of the submarine force. This will include topics like Women in Submarines, Technological Engineering Innovations, and Future Submarine Designs. Meant to inspire, these forward-looking exhibits will put great emphasis on technology and science, highlighting how engineers and scientists are driving innovation. There will also be a great emphasis on how women have contributed to the Submarine Force since the first woman served on a submarine in 2011.

The entire museum will be filled with interactive games that require understanding principles like basic physics, thermodynamics, echolocation, and more STEM topics. For example, one exhibit will require students to fire a torpedo at a target using Newton's Second Law of Motion. Another exhibit will ask students to locate a submarine using radar and sonar. By providing a more interactive experience, students are more likely to continue engaging with these subjects.

The new museum will also include an outdoor classroom and an indoor multi-purpose learning center. Both of these rooms will be used to host visiting schools.

Through our STEM Teacher Advisory group, PFSMA is also working directly with local teachers to design exhibits and materials that will integrate with existing school curricula. By working directly with teachers, the Pacific Fleet Submarine Museum will be able to educate local students in a more effective, impactful way.

The current estimated cost of the renovation project is over \$20MM (\$13MM for construction and \$7MM for museum exhibits). To date, PFSMA has invested nearly \$3MM in the design of the renovation. PFSMA has saved over \$9MM in a capital investment fund to support this effort. The PFSMA board has committed \$6MM of this fund to support the renovation.

PFSMA is looking to a broad set of resources to fund this project and is submitting this Grant in Aid application to specifically request funding for the museum's educational exhibits. The current cost estimate for educational exhibits is \$7M and PFSMA is requesting \$500,000 (7% of the total cost) for the project.

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#### 3. The public purpose and need to be served;

As one of the most popular tourist destinations in Hawaii and the most visited submarine museum in the world, the USS Bowfin Submarine Museum & Park is central to educating people about Pearl Harbor, our State's history, and the sacrifices made by veterans. For most visitors and almost all of our student visitors, the museum also serves as an introduction to submarines and the science behind them, from new technologies to the engineering achievements that make the US Submarine Force the best in the world.

Every year, over 400,000 visitors and students from hundreds of schools visit the museum. From hosting local schools to international student groups, the museum and the ship are, in many ways, a living classroom. PFSMA hopes to better serve this audience by providing an educational experience that is more impactful and personal. Particularly for local students, PFSMA wants the new museum to be a catalyst for learning and a world-class resource for STEM education opportunities.

As part of the museum renovations, we are putting a renewed focus on STEM learning and interactive educational displays. The goal of emphasizing technology and engineering, as well as gender equality in submarines, is educating and inspiring the next generation to engage with science, technology, math, and engineering.

For Hawaiian students that often lack the educational resources of their mainland counterparts, exposure to STEM fields is particularly important.

The value of STEM learning is clear and nowhere is its impact more evident and obvious than in the progress made in submarine technology. By highlighting the role of these subjects and connecting them to interactive education exercises, the museum will help drive students to pursue careers in these fields. The Department of Commerce projects continued growth for STEM occupations and STEM workers currently command 26% more than their non-STEM counterparts.

By providing a state-of-the-art, interactive educational experience, the museum will attract more visitors and it will have a bigger educational impact on each one.

#### 4. Describe the target population to be served; and

The target population is anyone visiting the museum, but particularly students from local schools. Everyone visiting the museum will interact with STEM learning modules and exhibits and we intend to make additional STEM learning materials and educational documents available for all visitors.

While all visitors will benefit from a more robust educational offering, local students will receive the greatest benefit from having access to state-of-the-art STEM education opportunities in their backyard. For the thousands of local students that visit the museum every year, these new exhibits will serve as a catalyst for inspiration and as an engaging introduction to important STEM subjects. The inclusion of Hawaiian voices and stories in the museum narrative will also help students relate these themes back to their own lives.

Unlike many museums, which encourage students of a particular age to explore everything in one visit, we are creating a museum experience that encourages students to stay engaged throughout their youth. We want to help shepherd students through learning about the basics of submarines to studying the complexities of submarines. We want students and classes to visit us multiple times throughout elementary school and high school; we are creating a place that can provide learning tools for students of all ages and backgrounds.

Local schools and visiting students will also benefit from the Outdoor Classroom and the Multi-Purpose Learning Room. The Outdoor Classroom will be dedicated to hosting school visits and it will provide a classroom setting for student visitors. The Multi-Purpose Learning Room will be used as a classroom and as a place for meetings and temporary exhibits.

Additionally, the local community will benefit from increased attendance and engagement, which will encourage more contribution to the local economy.

#### 5. Describe the geographic coverage.

Although we place a strong emphasis in serving Oahu, the Neighbor Islands, and the United States mainland, our target population is truly global. School groups, historians, veterans, military enthusiasts, tourists, government and civilian officials visit USS Bowfin Submarine Museum & Park from all over the world.

# III. Service Summary and Outcomes

The Service Summary shall include a detailed discussion of the applicant's approach to the request. The applicant shall clearly and concisely specify the results, outcomes, and measures of effectiveness from this request. The applicant shall:

#### 1. Describe the scope of work, tasks and responsibilities;

The renovation and expansion project is relatively straightforward in scope. While the broader renovation project will be funded largely by private donors, GIA funding assistance will cover the design, construction, and installation of the museum's educational exhibits.

The redesigned museum will contain over 50 exhibits that will educate visitors about the history of submarines, the technology behind submarines, and the people that serve on submarines. Intended to be both a primer for those unfamiliar with submarines and a lesson for those already knowledgeable about submarine history, the museum aims to educate every visitor.

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| Applicant | Pacific Fleet Submarine Memorial Ass | sociation |
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The new exhibits, which are being designed and constructed by the architects that designed the USS Arizona Visitor Center, MIG-Portico, will have a large focus on STEM learning. Planned exhibits include interactive learning modules that explain how sonar, radar, and radio communications work, how engine and propulsion technologies evolved since the Cold War, how missiles and torpedoes work, and a variety of other exhibits that focus on science, technology, engineering, and math. These exhibits are being assembled by Jill Randerson Exhibit Management and, upon completion of museum renovations, the exhibits will be installed inside the museum.

To date, PFSMA has invested over \$3,000,000 in the design of the planned expansion and renovation. Construction Drawings have been approved by Naval Facilities Engineering Command, Hawaii (NAVFAC) and we have authorization to proceed with construction. On January 14th, 2019, PFSMA broke ground on the first phase of the project.

2. Provide a projected annual timeline for accomplishing the results or outcomes of the service;

January 14, 2019: Museum renovation groundbreaking.

Spring 2019: Finalize interior museum construction plans.

Spring 2019-Spring 2020: Exhibit fabrication.

Spring 2020: Exhibit installation.

April/May 2020: Project completion and reopening.

3. Describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results; and

The museum is being developed, designed, constructed, and overseen by experienced museum professionals. The same architects that designed the acclaimed USS Arizona Memorial Visitor Center at Pearl Harbor, MIG-Portico, are designing the new museum. Jill Randerson Exhibit Management is managing the fabrication of museum exhibits.

PFSMA's Executive Director, Captain Charles Merkel, is overseeing the project and working with the PFSMA board to ensure that the project is adequately staffed and funded. This oversight will include selecting contractors, finalizing blueprints, monitoring construction progress, and the day-to-day work required to see this project to fruition.

The Museum Curator, Nancy Richards, and the Education & Outreach Coordinator, Charles Hinman, are working directly with the architects and exhibit designers to ensure that all exhibits meet the educational goals of PFSMA. As educational materials are developed and as new exhibit ideas arise, this education staff will also work with groups like the National Institute for STEM Education to ensure that exhibits are maximizing their educational effectiveness.

In order to evaluate and improve the effectiveness of exhibit and material designs, PFSMA has also assembled a STEM Teacher Advisory Group. This group will review all education materials

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and initiatives to maximize their impact on local students. By working with local teachers from across Hawaii, PFSMA can effectively evaluate and adjust education programs to suite the evolving needs of students.

4. List the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of appropriation differs from the amount included in this application that the measure(s) of effectiveness will need to be updated and transmitted to the expending agency.

Because the ultimate goal is to engage, educate, and inspire visitors, effectiveness will be measured in a variety of ways over the course of the project.

During development and construction, effectiveness will be measured by tracking progress towards completion. PFSMA has hired qualified, experienced local contractors that have experience working on similar projects at Pearl Harbor Sites. Mason Architects and Griffith Construction Consultants will provide oversight during the renovation to ensure that standards are met. PFSMA's board and executive team will oversee construction.

Upon completion, PFSMA anticipate increased attendance, more school visitors, and a longer period of time that each visitor spends in the museum. This will be tracked using internal data about ticket sales. PFSMA will also work with museum specialists to assess and improve visitor satisfaction.

PFSMA will also work directly with schools, educators, the STEM Teacher Advisory Group, and STEM-certification groups to ensure that exhibits and materials are effective. PFSMA will continue to refine and improve education exhibits and materials until our educators are satisfied with their efficacy.

Before and after photographs, as well as all budgeting materials, will also help evaluate the effectiveness of this project. Photographs will be taken throughout the construction process and detailed budgets will be compiled and reviewed in real time by PFSMA staff.

# <u>IV. Financial</u>

#### **Budget**

- 1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.
  - a. Budget request by source of funds (Link)
  - b. Personnel salaries and wages (Link)

- c. Equipment and motor vehicles (Link)
- d. Capital project details (Link)
- e. Government contracts, grants, and grants in aid (Link)
- 2. The applicant shall provide its anticipated quarterly funding requests for the fiscal year 2020.

| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Total Grant |
|-----------|-----------|-----------|-----------|-------------|
| \$125,000 | \$125,000 | \$125,000 | \$125,000 | \$500,000   |

3. The applicant shall provide a listing of all other sources of funding that they are seeking for fiscal year 2020.

PFSMA is working with Bank of Hawaii to secure an interest only \$15MM construction loan. Upon completion, this will roll into a \$4MM loan on a ten-year term and an \$11MM loan from the USDA Office of Rural Development.

PFSMA is also conducting a capital campaign to raise necessary funds. The campaign is appealing to individual donors, corporate donors, and foundations. We have already secured over \$500,000 in individual and corporate pledges. We also have pending requests with a variety of corporations and individuals. Today, our lead donors are Hawaiian Electric Industries, Bank of Hawaii, Home Market Foods, First Hawaiian Bank, Maui Divers Jewelry, and a few Hawaii-based individuals. PFSMA's Board of Directors has also committed \$6,000,000 to the project.

PFSMA does not currently anticipate applying for any federal or state government funding during the next fiscal year.

4. The applicant shall provide a listing of all state and federal tax credits it has been granted within the prior three years. Additionally, the applicant shall provide a listing of all state and federal tax credits they have applied for or anticipate applying for pertaining to any capital project, if applicable.

None.

5. The applicant shall provide a listing of all federal, state, and county government contracts, grants, and grants in aid it has been granted within the prior three years and will be receiving for fiscal year 2020 for program funding.

PFSMA received a grant in aid from the State of Hawaii for the 2019 fiscal year. This grant in aid was for \$215,000 to make the campus ADA compliant. This request is unrelated to our current request.

PFSMA has not received any additional government funding.

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6. The applicant shall provide the balance of its unrestricted current assets as of December 31, 2018.

Statement of Financial Position as of December 31, 2018 is attached.

#### V. Experience and Capability

#### 1. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

PFSMA has operated the USS Bowfin Submarine Museum & Park at Pearl Harbor since 1978. During this time, PFSMA has overseen routine maintenance ranging from minor building upgrades like the installation of solar panels to preserving the USS Bowfin.

For this renovation project, PFSMA selected MIG-Portico to lead the effort to expand USS Bowfin Submarine Museum & Park. MIG-Portico was the lead architect for the revitalization of the USS Arizona Visitor Center. They have brought on Jill Randerson Exhibit Management to manage the fabrication and installation of museum exhibits. MIG-Portico has also used a number of Hawaii-based architectural and engineering firms, including Mason Architects, Belt Collins Hawaii, Baldridge & Associates Structural Engineers, Mechanical Engineers of Hawaii, Coffman Engineers, and James Tucker Associates. MIG-Portico and their local partners are involved in the review and selection process for the contractor(s) that will perform the renovation process. Mason Architects and Griffith Construction Consultants will provide oversight during the renovation.

PFSMA's education team, Charles Hinman and Nancy Richards, are advising the design team and ensuring that educational goals are met. Mr. Hinman and Ms. Richards have over forty years of experience at the USS Bowfin Submarine Museum & Park. Mr. Hinman has coordinated the museum's education programming for two decades and has extensive experience working with schools and student visitors. Ms. Richards also holds a Masters in Museum Studies. This team will work with the STEM Teacher Advisory Group to ensure effectiveness.

#### 2. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities.

| ApplicantPacific Fleet Submarine Memorial Association |  |
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USS Bowfin Submarine Museum & Park is located at Pearl Harbor immediately adjacent to the USS Arizona Memorial Visitors Center. USS Bowfin Submarine Museum & Park occupies approximately 3.8 acres of land that is leased from the U. S. Navy. This lease is administered by Naval Facilities Engineering Command, Hawaii. In May 2018, Naval Facilities Engineering Command and PFSMA executed a new 25-year lease.

The current campus comprises of:

- The USS Bowfin, a decommissioned WWII submarine that sits in Pearl Harbor;
- The Pacific Fleet Submarine Museum, a 9,000-square-foot museum dedicated to submarine history;
- A variety of outdoor exhibits including:
  - the Waterfront Memorial, which honors more than 3,500 submariners lost during WWII;
  - a Conning Tower, where visitors can explore the confined space of a WWII submarine;
  - a Kaiten, one of the only remaining Japanese manned torpedoes in existence;
  - a submarine rescue chamber; and,
  - over a dozen missiles, torpedoes, anchors, and propellers.
- Comfort Station (restrooms);
- Food court;
- · Gift shop; and,
- Staff lounge and offices.

After the renovation, the museum will include:

- A completely reimagined museum with an additional 3,000 square-feet of museum space;
- An outdoor classroom;
- A Multi-Purpose Learning Space;
- Renovated Gift Shop and Support Facilities;
- An enclosure for the Kaiten, a rare Japanese manned torpedo; and,
- · Rearranged and preserved outdoor exhibits.

# VI. Personnel: Project Organization and Staffing

# 1. Proposed Staffing, Staff Qualifications, Supervision and Training

The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

As of January 11th 2019, USS Bowfin Submarine Museum & Park has 79 full-time employees. A 15-member Board of Directors provide governance, strategic planning, and oversight. Our contacts and partnerships extend across a wide spectrum of community, national, and international relationships that have been forged over the years.

The PFSMA's Board of Directors is chaired by Captain Ronald R. Cox, USN (Ret.) who is currently the Vice President for Power Supply at Hawaiian Electric Company. Captain Cox is a leader in the community, serving as a Board Member of YMCA.

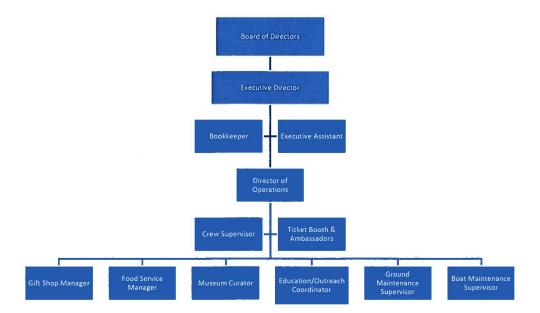
The Museum is led by Executive Director Captain Charles K. (Chuck) Merkel, USN (Ret.). Captain Merkel served on active duty in the U. S. Navy submarine force for 30 years and holds the distinction of being the first submarine Commanding Officer since World War II to lead his crew in combat on two successive deployments. Captain Merkel assumed the leadership of the Museum in May 2016. Captain Merkel served as Commanding Officer of a nuclear-powered submarine, a submarine training command and an operational joint command. His final active duty assignment was as the Director for Maintenance and Material Readiness for the Pacific submarine force. In this position, he supervised the day-to-day operation of all submarines operating in the Pacific fleet. As Executive Director, Captain Merkel is responsible to the Board of Directors for all aspects of operations at USS Bowfin Submarine Museum & Park.

The PFSMA Board of Directors specifically selected MIG-Portico to lead the effort to revitalize and expand the museum due to their involvement in the revitalization of the USS Arizona Visitors Center. MIG-Portico brought together a number of Hawaii-based architectural and engineering firms to assist in this effort. These local firms have been involved in completing the design, selection of contractors, and supervision of the construction.

The administration of education programming will be overseen by PFSMA education staff. Mr. Hinman, the Education Director, and Ms. Richards, the Museum Curator, each have over 20 years of experience running education programming at the museum. Ms. Richards holds a Masters in Museum Studies.

#### 2. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/supervision. If the request is part of a large, multi-purpose organization, include an organization chart that illustrates the placement of this request.



#### 3. Compensation

The applicant shall provide an annual salary range paid by the applicant to the three highest paid officers, directors, or employees of the organization by position title, <u>not</u> employee name.

Executive Director: \$100,000 Director of Operations: \$64,487 Boat Maintenance Supervisor: 68,251

# VII. Other

## 1. Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

USS Bowfin Submarine Museum & Park is not a party to any pending litigation or subject to any outstanding judgement.

#### 2. Licensure or Accreditation

The applicant shall specify any special qualifications, including but not limited to licensure or accreditation that the applicant possesses relevant to this request.

PFSMA has a long history of successfully operating the most visited submarine museum in the world. USS Bowfin Submarine Museum & Park completes the Pearl Harbor Historic Sites along

with the USS Arizona Memorial, the Battleship Missouri Memorial and the Pacific Aviation Museum Pearl Harbor. Naval History and Heritage Command provides oversight for the accountability and maintenance of artifacts on loan for PFSMA.

PFSMA has also hired MIG-Portico, a leading architecture firm with extensive experience at Pearl Harbor and other world-class museums, to design and oversee the project. Construction will be overseen by Mason Architects and Griffith Construction Consultants, both local firms with extensive experience.

#### 3. Private Educational Institutions

The applicant shall specify whether the grant will be used to support or benefit a sectarian or non-sectarian private educational institution. Please see <u>Article X, Section 1, of the State Constitution</u> for the relevance of this question.

The grant will not be used to support or benefit a sectarian or non-sectarian private educational institution.

#### 4. Future Sustainability Plan

The applicant shall provide a plan for sustaining after fiscal year 2019-20 the activity funded by the grant if the grant of this application is:

- (a) Received by the applicant for fiscal year 2019-20, but
- (b) Not received by the applicant thereafter.

The funds requested by this grant will be utilized to fund the one-time costs associated with the development and construction of educational exhibits. Once the installation of educational exhibits is completed, the cost of operation and maintenance will be covered by the normal annual revenue and budgeting process.

4:37 PM 01/11/19

Accrual Basis

# Pacific Fleet Submarine Memorial Association, Inc. Statement of Financial Position

As of December 31, 2018

Dec 31, 18 **ASSETS Current Assets** Checking/Savings 10000 · Cash 10650 · Cash - Change Fund 7,880.00 10900 · Vault Services 146,850.00 10100 · BH- Ops Fund - 040 -77,275.80 10200 · BH - Gift Shop - 059 308,787.00 10450 · BH - Combined Funds - 115 -275,291.75 10500 · Educational Endowments 845,555.45 10600 · Petty Cash 800.00 10700 · Cash - Investments 9,034,447.46 Total 10000 · Cash 9,991,752.36 **Total Checking/Savings** 9,991,752.36 **Accounts Receivable** 16250 · Due from Rec.gov 65,715.00 16000 · Accounts Receivable 29,429.25 **Total Accounts Receivable** 95,144,25 **Other Current Assets** 12800 · Prepaid Expenses 12804 · Prepaid Lease - Naval Facility 53,088.04 12801 · Prepaid insurance 87,417.33 Total 12800 · Prepaid Expenses 140,505.37 12500 · Inventory 207,107.86 **Total Other Current Assets** 347,613.23 **Total Current Assets** 10,434,509.84 **Fixed Assets** 15600 · Computer Software 102,601.78 15000 · Fixed Assets (Furniture and equipment with useful life exceeding one year) 15240 · Museum Renovation CIP 1,559,559,36 15100 · Building, Land & Museum 3,781,516.88 15200 · Future Capital Improvements 15230 · Construction CIP 1,117,665.98 15225 · Construction in Progress 51,779,19 15200 · Future Capital Improvements - Other 527,973.05 Total 15200 · Future Capital Improvements 1,697,418.22 15300 · Submarine Museum 757,003.22 15400 · Furniture, Fixtures & Equipment 15452 · Simplex - Fire Extinguishers 17,427.93 15451 · Leaf, LLC - Audio Headsets 99,000.00 15400 · Furniture, Fixtures & Equipment - Other 148,577.38 Total 15400 · Furniture, Fixtures & Equipment 265,005.31 15500 · Vehicles 27,996.98 15900 · Accumulated Depreciation -3,698,521.49 Total 15000 · Fixed Assets (Furniture and equipment with useful life exceeding one year) 4,389,978.48 **Total Fixed Assets** 4,492,580.26 Other Assets 16510 · Grant Receivable - Noncurrent 25,000.00 **Total Other Assets** 25,000.00 **TOTAL ASSETS** 14,952,090.10 **LIABILITIES & EQUITY** Liabilities **Current Liabilities Accounts Payable** 20001 · Accounts Payable - OPS 2,699.09 **Total Accounts Payable** 2,699.09

4:37 PM 01/11/19

**Accrual Basis** 

# Pacific Fleet Submarine Memorial Association, Inc. Statement of Financial Position

As of December 31, 2018

Dec 31, 18 **Credit Cards** 20802 · Credit Card - Sam's Club 972.93 20800 · Credit Card - AMEX 11,778.45 **Total Credit Cards** 12,751.38 **Other Current Liabilities** 20299 · Accrued Vacation 93,303.83 24300 · AFLAC Payable (Employee Premiums) -108.52 22100 · Accrued General Excise Tax 18,316.26 24100 · Garnishment Payable 70.58 24200 · IRA Payable 13,093.76 21000 · Due from Combined Account 21300 · Due to P.H.P 34,731.46 21200 · Due to P. H. Aviation Museum 163,648.70 21100 · Due to Missouri 492,778.73 Total 21000 · Due from Combined Account 691,158.89 **Total Other Current Liabilities** 815,834.80 **Total Current Liabilities** 831,285.27 **Total Liabilities** 831,285.27 **Equity** 31000 · Temp Restricted Net Assets 240,775.40 30000 · Opening Balance Equity (Opening balances during setup post to this account. The balance of this acc... 1,183,255.37 30300 · Unrestricted Net Assets (Other Income) 12,046,649.38 **Net Income** 650,124.68 **Total Equity** 14,120,804.83 **TOTAL LIABILITIES & EQUITY** 14,952,090.10

# **BUDGET REQUEST BY SOURCE OF FUNDS**

Period: July 1, 2019 to June 30, 2020

App

Pacific Fleet Submarine Memorial Assn.

| 10,000 | UDGET<br>ATEGORIES                      | Total State<br>Funds Requested<br>(a) | Total Federal<br>Funds Requested<br>(b)    | Total County<br>Funds Requested<br>(c) | Total Private/Other<br>Funds Requested<br>(d) |
|--------|---|---------------------------------------|--|--|---|
| A.     | PERSONNEL COST                          |                                       |  |  |   |
| Ι.     | 1. Salaries                             |                                       |  |  |   |
| Ι.     | Payroll Taxes & Assessments             |                                       |  |  |   |
|        | Fringe Benefits                         |                                       |  |  |   |
|        | TOTAL PERSONNEL COST                    |                                       |  |  |   |
| B.     | OTHER CURRENT EXPENSES                  |                                       |  |  |   |
| Ι.     | Airfare, Inter-Island                   |                                       |  |  |   |
|        | 2. Insurance                            |                                       |  |  |   |
|        | Lease/Rental of Equipment               |                                       |  |  |   |
|        | Lease/Rental of Space                   |                                       |  |  |   |
| Ι.     | 5. Staff Training                       |                                       |  |  |   |
|        | 6. Supplies                             |                                       |  |  |   |
|        | 7. Telecommunication                    |                                       |  |  |   |
|        | 8. Utilities                            |                                       |  |  |   |
|        | 9                                       |                                       |  |  |   |
|        | 10                                      |                                       |  |  |   |
|        | 11                                      |                                       |  |  |   |
| -      | 12                                      |                                       |  |  |   |
|        | 13                                      |                                       |  |  |   |
|        | 14                                      |                                       |  |  |   |
|        | 15                                      |                                       |  |  |   |
|        | 16                                      |                                       |  |  |   |
|        | 17                                      |                                       |  |  |   |
|        | 18                                      |                                       |  |  |   |
|        | 19                                      |                                       |  |  |   |
| -      | 20                                      |                                       | 745  |  |   |
|        | TOTAL OTHER CURRENT EXPENSES            |                                       |  |  |   |
| C.     | EQUIPMENT PURCHASES                     |                                       |  |  |   |
| D.     | MOTOR VEHICLE PURCHASES                 |                                       |  |  |   |
| E.     | CAPITAL                                 | 500,000                               |  |  | 6,533,746                                     |
| TO     | AL (A+B+C+D+E)                          | 500,000                               |  | 96.00 200.000200                       | 6,533,746                                     |
|        |   |                                       | Budget Prepared By:                        |  |   |
| 60     | IDCES OF FUNDING                        |                                       |  | , 1                                    | 8084231341                                    |
|        | JRCES OF FUNDING                        |                                       | Charles M                                  | Parka 1                                |   |
|        | (a) Total State Funds Requested         | 500,000                               |  | rike i                                 |   |
| ١.     | (b) Total Federal Funds Requested       |                                       | Name (Please type or print)                |  | 1/15/2019                                     |
|        | (c) Total County Funds Requested        |                                       | 1/1////                                    |  | 1/13/2017                                     |
|        | (d) Total Private/Other Funds Requested | 6,533,746                             |  | F X O - 7 : 11                         | Date  |
| тот    | AL BUDGET                               | 7,033,748                             | Charles Men<br>Name and Title (Please type | chel Exectist<br>Direct                |   |

#### **BUDGET JUSTIFICATION - PERSONNEL SALARIES AND WAGES**

Period: July 1, 2019 to June 30, 2020

| Applicant: | Pacific Fleet Submarine Memorial Assn |  |
|------------|---------------------------------------|--|
|------------|---------------------------------------|--|

| POSITION TITLE          | FULL TIME<br>EQUIVALENT | ANNUAL SALARY<br>A | % OF TIME ALLOCATED TO GRANT REQUEST B   | TOTAL<br>STATE FUNDS<br>REQUESTED<br>(A x B) |   |
|-------------------------|-------------------------|--------------------|--|--|---|
| N/A                     |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    | all and the second seco | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | _ |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   |   |
|                         |                         |                    |  | \$   |   |
|                         |                         |                    |  | \$   | - |
|                         |                         |                    |  | \$   | - |
| TOTAL:                  |                         |                    |  |  |   |
| JUSTIFICATION/COMMENTS: |                         |                    |  |  |   |

# **BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES**

Period: July 1, 2019 to June 30, 2020

Applicant: \_Pacific Fleet Submarine Memorial Assn.

| DESCRIPTION             | NO. OF | COST PER | TOTAL | TOTAL    |
|-------------------------|--------|----------|-------|----------|
| EQUIPMENT               | ITEMS  | ITEM     | COST  | BUDGETED |
| N/A                     |        |          | \$ -  |          |
|                         |        |          | \$ -  |          |
|                         |        |          | \$ -  | <i>"</i> |
|                         |        |          | \$ -  |          |
|                         |        |          | \$ -  |          |
| TOTAL:                  |        |          |       |          |
| JUSTIFICATION/COMMENTS: |        |          |       |          |

| DESCRIPTION OF MOTOR VEHICLE            | NO. OF<br>VEHICLES | COST PER<br>VEHICLE | TOTAL<br>COST | TOTAL<br>BUDGETED                               |
|---|--------------------|---------------------|---------------|---|
| N/A                                     |                    |                     | \$ -          |   |
|   |                    |                     | \$ -          |   |
|   |                    |                     | \$ -          |   |
| *************************************** |                    |                     | \$ -          | · <del> · · · · · · · · · · · · · · · · ·</del> |
|   |                    |                     | \$ -          |   |
| TOTAL:                                  |                    |                     |               |   |

JUSTIFICATION/COMMENTS:

# **BUDGET JUSTIFICATION - CAPITAL PROJECT DETAILS**

Period: July 1, 2019 to June 30, 2020

Applicant: Pacific Fleet Submarine Memorial As

| TOTAL PROJECT COST |               | S OF FUNDS PRIOR YEARS | STATE FUNDS<br>REQUESTED | OTHER SOURCES OF FUNDS REQUESTED | FUNDING R<br>SUCCEEDI | EQUIRED IN   |
|--------------------|---------------|------------------------|--------------------------|----------------------------------|-----------------------|--------------|
|                    | FY: 2017-2018 | FY: 2018-2019          | FY:2019-2020             | FY:2019-2020                     | FY:2020-2021          | FY:2021-2022 |
| PLANS              |               |                        |                          |                                  |                       |              |
| LAND ACQUISITION   |               |                        |                          |                                  |                       |              |
| DESIGN             |               | 1                      |                          |                                  |                       |              |
| CONSTRUCTION       |               | 532000                 | 700000                   |                                  |                       |              |
| EQUIPMENT          |               |                        |                          |                                  |                       |              |
| TOTAL:             |               | 532000                 | 700,000                  |                                  |                       |              |

# **GOVERNMENT CONTRACTS, GRANTS, AND / OR GRANTS IN AID**

Applicant: Pacific Fleet Submarine Memorial Assn.

Contracts Total:

215,000

|         | CONTRACT DESCRIPTION          | EFFECTIVE<br>DATES                      | AGENCY                                  | GOVERNMENT<br>ENTITY<br>(U.S. / State / Haw /<br>Hon / Kau / Mau) | CONTRACT VALUE                          |
|---------|-------------------------------|---|---|---|---|
| 1       | Grant in aid (ADA Compliance) | FY 2019                                 | State Legislature                       | State (HI)  | 215,000                                 |
| 2       |                               | *************************************** |   |   |   |
| 3       |                               |   |   |   |   |
| 4       |                               |   |   |   |   |
| 5       |                               |   |   |   |   |
| 6       |                               |   |   |   |   |
| .7<br>8 |                               |   |   |   |   |
| 9       |                               |   |   |   | ······································  |
| 10      |                               |   |   |   |   |
| 11      |                               |   |   |   |   |
| 12      |                               |   |   |   |   |
| 13      | <b></b>                       |   |   |   | *************************************** |
| 14      |                               | *************************************** | *************************************** |   | *************************************** |
| 15      |                               |   |   |   | *************************************** |
| 16      |                               |   | *************************************** |   | ······································  |
| 17      |                               |   |   |   |   |
| 18      |                               |   |   |   |   |
| 19      |                               |   | *************************************** |   |   |
| 20      |                               |   | ****                                    |   |   |
| 21      |                               |   |   |   | ·····                                   |
| 22      |                               |   |   |   | *************************************** |
| 23      |                               |   |   |   |   |
| 24      |                               |   |   |   |   |
| 25      |                               | *************************************** |   |   | *************************************** |
| 26      | ļ                             |   |   |   | ·                                       |
| 27      |                               |   |   |   |   |
| 28      |                               |   |   |   |   |
| 29      |                               |   | *************************************** |   | *************************************** |
| 30      |                               |   | <u> </u>                                |   |   |

# Addendum: Breakdown of Museum Exhibit Costs



Project:
FABRICATION ESTIMATE
USS Bowfin Submarine Museum & Park

Client: MIG | Portico

22nd August , 2018

| ITEM  |                |   | PREVIOUS       | CURRENT   | Notes                                  |
|-------|----------------|---|----------------|---|--|
| 0.0   |                | ADMINISTRATION AND SHIRPING   | \$2,103,500    | \$2,503,500                                     |  |
| -     | 1              | Admin: PM, Graphic Intake, samples, proofs                          | \$174,000      | \$174,000                                       |  |
| -     | 1              | Create production ready graphic files                               | \$135,000      | \$135,000                                       |  |
| -     | 1              | Image acquisition, rights, illustrations & maps                     | \$25,000       | \$40,000  | Increased per MIG I Portico            |
|       |                | Medie acquisition, rights   | \$100,000      | \$100,000                                       |  |
| _     | +-             | CMS   |                | \$35,000  |  |
| _     | +              | Preparation of existing artifacts as necessary                      | \$50,000       | \$50,000  |  |
|       | +              |   | \$100,000      | \$100,000                                       |  |
|       | +              | Integration with base building, site and GC                         | \$75,000       | \$75,000  |  |
|       | +              | Ship: Pack and ship   | \$315,000      | \$315,000                                       |  |
|       | +-             | Exhibit installation: Labor, Flight, hotel, per diem                |                |   |  |
|       | -              | AV integration  | \$34,500       | \$34,500  |  |
|       |                | A/V network   |                | \$150,000                                       | Added                                  |
|       | 1              | A/V Media development   | \$1,095,000    | \$1,095,000                                     |  |
| 0.    | .1             | PROVISION FOR CONTINUOUS OPERATION                                  | \$225,000      | \$0   | <b>图</b> 类或是图片文化图形图片                   |
|       |                | Curation & temp exhibit design                                      | 25000          |   |  |
|       |                | Temp graphics and video   | 50000          |   | 4                                      |
|       |                | Demount existing and set up temp exhibit                            | 150000         |   |  |
| .0    |                | ARRIVAL / WELCOME   | \$737,140      | \$697,740                                       | The state of the state of the state of |
| )1A   |                | ARRIVAL PLAZA   |                |   |  |
|       | C01            | Hull Ring, graphic  | \$38,200       | \$ 5,350  | Hull Ring by GC                        |
|       | _              | Hull ring graphic and mount   |                |   |  |
|       | C02            | Facade: Images in clad panels                                       | \$69,600       |   | By GC                                  |
|       | C02            | Fecede: Bettle flegs-   | 633,340        |   | Deleted                                |
|       | C03            | Propeller - custom cradle/mount-                                    | 620,060        |   | NIC                                    |
| 18    | 1000           | ENTRY SAIL  | \$23,300       | 6 22200   |  |
|       | C01            | Lighting/Audio/FX   | \$23,300       |   |  |
| _     | +-             | Figures   |                | \$ 83,150                                       |  |
|       | +              | Graphics on curved panels x 4 ( 20 x 15)  Delphine -1 new, 1 re-use | \$18,500       | 3 63,150  | Deleted                                |
|       |                | 2 reading ralls / graphics  | Viologo        | \$ 16,350                                       | 55500                                  |
| )1C   | +              | WELCOME PLAZA   |                | 0 10,000  |  |
|       | C01            | Museum entry: graphics  | \$170,000      |   | 4,050 - In GC scope                    |
|       | 602            | Eternal petrol: translucent graphics                                | 621200         |   | NIC                                    |
|       | C04            | After the attack: Graphics  | \$21,300       | \$ 16,350                                       |  |
| - 110 |                | Orientation and way finding × 3                                     | 624,000        |   | NIC                                    |
|       | C05            | Donor recognition   | MOVE TO SECURE | \$ 55,550                                       |  |
| 1D    | C01            | Memorial Graphics   |                | \$ 8,050  | Was 6A - check price                   |
| 1E    | C01            | Regulus   |                | \$ 8,050  |  |
|       | C02            | Regulus Plaque  |                |   | NIC                                    |
| 1F    | <del>G01</del> | Lonei R&R Crophics  |                |   | Deleted                                |
| 1G    | CO1            | MK14 Torpedo Graphics   |                |   | Wes 06C                                |
|       | C02            | MK14 Torpedo Graphics   |                | \$ 5,350  |  |
| 1H    | C01            | Parche Conning Tower, Periscopes - graphics                         |                |   | Wes 06D                                |
| 11    | C01            | Kids play zone - structure  |                | \$ 140,000                                      |  |
| ม     | 1000           | WATERFRONT POINT  |                | 6 5350  | W OFD/F                                |
| _     | C01            | 3° gun  |                |   | Was 06D/E<br>Was 06D/E                 |
| -     | C02            | Tomehawk Missile Propeller  |                |   | Was 06D/E                              |
| -     | C04            | Harpoon Missile   |                | THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER. | Was 06D/E                              |
| -     | C05            | Quad Gun  |                |   | Was 06D/E                              |
|       | C06            | Rescue Chamber  |                |   | Was 06D/E                              |
| 1K    | C01            | Kelten  |                |   | Was O6D/E                              |
| 1L    | 1              | TORPEDO / MISSILE ROW   |                |   |  |
|       | C01            | MK14 Torpedo Graphics   |                | \$ 5,350  |  |
|       | C02            | MK14 Exercise Torpedo   |                | \$ 5,350  |  |

|          | -                                       | 1  |           | т           |   |
|----------|---|--|-----------|-------------|---|
| <u> </u> | C03                                     | MK37 Electric Torpedo                      |           | \$ 5,350    |   |
|          | C04                                     | MK45 Nuclear Torpedo                       |           | \$ 5,350    |   |
|          | C05                                     | Subroc Missile                             |           | \$ 5,350    |   |
|          | C06                                     | Encapsulated Harpoon Missile               |           | \$ 5,350    |   |
|          | C07                                     | Future D5 Missile                          |           |             | Deleted allowance (future addition)               |
| 01M      |   | Amphitheater                               |           |             | NIC   |
| 01W      |   | Wayfinding                                 | 1         | \$ 37,000   | 2 site map, 2 other , 1 buses                     |
| 2.0      | S NESSES                                | THE SILENT SERVICE                         | 9133,100  |             |   |
| 02A      | 100000000000000000000000000000000000000 | SILENT SERVICE LEGACY                      | 7         |             |   |
| 024      | C01                                     |  | \$9,700   |             |   |
| $\vdash$ | 1001                                    | The Silent service: intro graphics         | \$3,700   |             |   |
|          | -                                       | Wall partition                             |           | \$ 11,700   |   |
|          |   | Artifact mounting; dolphins, cross         | <b>4</b>  | \$ 3,450    |   |
|          |   | F4 Headstone mount                         |           | \$ 5,050    |   |
|          |   | F4 Cross, Hat case                         |           | \$ 3,650    |   |
|          |   | Dolphin logos                              |           | \$ 4,400    | Added   |
|          | C02                                     | Submariner Banners: banner graphics        | \$13,500  | \$ 11,970   |   |
|          | C03                                     | Donor recognition                          | \$31,500  | \$ 10,300   |   |
|          | C04                                     | Sail with Graphics                         | \$37,300  |             |   |
| 02B      | 1001                                    | GALLERY ENTRIES                            | 10/100    | 0.,000      |   |
| 020      | 1001                                    |  | 64,000    | 6 6700      |   |
|          | C01                                     | Gallery entry: Unrestricted Warfare        | \$4,800   |             |   |
|          | C02                                     | Gallery Entry: Underway on Nuclear power   | \$8,300   | \$ 8,300    |   |
| 02C      | 1                                       | Pride Runs Deep - NOW EXTERNAL PATROL      |           |             |   |
|          | <del>601</del>                          | Pride Runs Deep: Grephics                  | 69,800    | Í           |   |
|          | C02                                     | On eternal patrol: Graphics                | \$8,500   | \$ 10,600   |   |
|          | C03                                     | Search for lost subs: Media Kiosk          | \$9,700   |             |   |
| 02D      | C01                                     | Project Acknowledgements                   |           | \$ 1500     |   |
| 3,0      |   | AFTER PEARL HARBOR                         | \$991,874 | \$1,201,693 |   |
| 03A      | THE REAL PROPERTY.                      | Execute unrestricted warfare               | 100.007   | 7444        |   |
| USA      | 1000                                    |  | ******    | 45.00       | <del>, , , , , , , , , , , , , , , , , , , </del> |
|          | C01                                     | Attack Order                               | \$24,900  | \$15,400    |   |
| 03B      |   | West to Empire                             |           |             |   |
|          | C01                                     | Target Merchant shipping                   | \$15,700  | \$27,450    |   |
|          | C02                                     | Identifying targets                        | \$12,500  | \$46,263    |   |
|          | C03                                     | Failure of tactics, command - graphics     | \$28,500  | \$14,400    |   |
|          | C04                                     | Wahoo - graphics                           | \$33,200  | \$38,400    |   |
|          |   | Wahoo bell mount                           |           |             | Added   |
|          | C05                                     | Submariners families (2)                   | \$37,700  | \$76,800    |   |
|          | C06                                     |  |           |             | ···   |
|          | 1000                                    | At Home                                    | \$13,500  | \$3,200     |   |
| 03C      |   | Capabilities and Tactics                   |           |             | - 4.6.6   |
|          | C01                                     | Bowfin model                               | \$32,000  | \$31,200    |   |
|          | C02                                     | Bowfin virtual tour                        | \$9,600   | \$14,000    |   |
|          | C03                                     | Torpedoes                                  | \$58,800  | \$52,500    |   |
|          | C04                                     | Radio/Sonar/Radar                          | \$72,200  | \$99,000    |   |
| -        | C05                                     | Diesel/Electric Propulsion                 | \$45,000  | \$47,500    |   |
|          | C06                                     | Overhead curved graphics and panels        | \$50,200  |             |   |
| 03D      | 1                                       | Crew Stories and Patrols                   | 770,000   |             |   |
| WD       | CO1                                     | War Patrols Intro                          | 61/ 500   | \$32,000    |   |
|          | _                                       | •  | \$14,500  |             |   |
|          | C02                                     | Patrols: Life on War Patrol                | \$61,700  | \$57,700    |   |
|          | C03                                     | Patrols: Destroy Japanese Shipping         | \$61,700  | \$56,500    |   |
|          | C04                                     | Petrols: You're on Your Own                | \$61,700  | \$41,200    |   |
|          | C05                                     | Patrols: Special Missions                  | \$61,700  | \$44,300    |   |
|          |   | Wall case - Bowfin battleflag              |           | \$15,930    | Added   |
|          | C06                                     | Crew Stories: Sub Culture                  | \$19,100  | \$17,100    |   |
|          | C07                                     | Crew Stories: Japanese Souvenirs and POW's | \$19,100  | \$15,500    |   |
|          | C08                                     | Crew Stories: Special Occasions            | \$19,100  | \$15,500    |   |
|          | C09                                     | Interactive Media: Crew life               | \$9,700   |             | Klosk & A/V Hdw. Media and Integration in         |
|          | -                                       |  |           |             |   |
|          | C10                                     | Interactive Media: Great Sub Stories       | \$9,700   |             | Klosk & A/V Hdw. Media and Integration in         |
|          | C11                                     | Mission Interactive                        | \$59,200  | \$14,500    |   |
|          | C12                                     | Patrols: Submarine Video                   | \$10,444  |             | Infrastructure & A/V Hdw. Media & Integration in  |
|          | C13                                     | Patrols: Returning to base                 | \$14,200  | \$34,300    |   |
|          | C14                                     | Banner graphics above                      | \$13,500  | \$36,500    |   |
| )3E      |   | The Impact: Breaking the Back              |           | 5 Min 20    |   |
|          | C01                                     | Breaking the Back: Parche                  | \$57,100  | \$65,500    |   |
|          |   | Ratings blanket wall case                  |           | \$5,100     | Added   |
|          | C02                                     | Breaking the Back: Other successful subs   | \$25,700  | \$49,900    |   |
|          |   |  |           |             | Infractructura C ADI Light Madia C Integration in |
|          | C03                                     | Sub Rescue: Lifeguard league               | \$18,230  |             | Infrastructure & A/V Hdw. Media & Integration in  |
|          | C04                                     | Cost and Loss                              | \$12,800  | \$20,200    |   |
|          |   | Medal of honor                             |           | \$4,600     | Added   |
|          | C05                                     | End of the War: Lockwood, Tokyo Bay        | \$8,900   | \$17,350    |   |
| 3F       |   | Kids Exploration Zone                      |           |             |   |
|          | C01                                     | Kids Exploration Zone                      |           | \$78,000    |   |
|          |   | 5 benches                                  |           | \$10,800    |   |
|          |   | Interpretive graphics x 8                  | \$64,000  | 7.0000      |   |
|          |   | microprotita graphinos x o                 | 304,000   |             |   |

| 4.0           | R COLUMN       | UNDERWAY ON NUCLEAR POWER                      | \$741,8   | \$1,075,11 | Market San   |
|---------------|----------------|--|-----------|------------|--|
| 04A           | -              | Cold War                                       |           | 7,0074,0   | STATE OF STA |
| <del></del>   | C01            | Graphics                                       |           | \$22.32    | Walls by GC. Curved walls by exhibits  |
| -             | C02            | Cold War intro film                            | \$14,20   | -          | Infrastructure only, A/V Hdw. and media in ad  |
| _             | C03            |  | \$14,2X   |            | REVISED  |
| _             | _              | Learning from the last war                     |           |            |  |
|               | C04            | Cold war fears (Duck and Cover)                | \$17,20   | -          |  |
|               | +-             | CW brochures wall                              |           | \$2,50     | Added  |
| 04B           | +              | Nautilus and Nuclear Subs                      |           |            |  |
|               | C01            | Intro wall, Innovation and tech; Hydrodynamics |           |            | Graphics, video, models, artifacts, graphics   |
|               | C01            | Early Cold War timeline                        | \$36,00   |            |  |
|               | C02            | Innovation and Tech: Interactive media         |           | \$36,97    | Klosk, drives, projected/screen animation.   |
|               | C02            | Nuclear power intro: Graphics and video        | \$6,50    | 0          | Infrastructure only, A/V Hdw. and media in ad  |
|               | C03            | Nautilus model                                 | \$21,65   | 0          |  |
|               | <del>C04</del> | Noutilus at the pole                           | \$12,92   | 0          |  |
|               | G05            | Innovation and Tech: Nuclear Propulsion        | \$47,20   | 0          |  |
|               | 606            | Innovation and Tech: Hydrodynamics             | \$65,50   | 0          |  |
|               | <del>C07</del> | Innovation and Tech: Interactive media-        | \$9,70    | 0          | Klosk only, A/V How. and media in admin line   |
|               | C08            | Thresher: 6UBSAFE                              | \$19,10   | 0          |  |
|               | C09            | Shipyards and production                       | \$17,70   | 0          |  |
| 4C            | +              | Cold War timeline                              |           |            | Was: Ballistic Missile Subs  |
|               | C01            | Early cold war timeline - 1945 -60's           | \$12,80   | 0 \$24.600 | Was: Boomers and Fast Attacks: Graphic intro   |
| _             | 1001           | Cases and mount adds                           | \$12,00   | \$9,100    |  |
|               | C02            |  | 60.10     |            |  |
| _             | +              | Case:Nautlius at the pole                      | \$18,40   | -          | Was: 41 For Freedom Intro: graphics and video  |
|               | C03            | Nautlius Video - was CO2                       | \$22,40   |            |  |
|               | C04            | Cold war timeline - 1961 -89                   | \$44,00   |            | Wes: 4B -C09   |
|               | _              | Cases added                                    |           | \$10,600   |  |
|               | C05            | Thresher: SUBSAFE                              | \$44,00   |            | Wes: 48-C08  |
|               | C06            | Kamehamaha                                     |           | \$58,265   | Wes: 4B-C03  |
|               |                | Kamehamaha model case                          |           | \$15,100   | Added  |
|               | 606            | Innovation and Tech: Interactive media-        | 60,70     | P          | Klosk only, A/V Hdw. and media in admin line   |
|               | <del>607</del> | Louch Control Panels                           | 610,10    | 9          |  |
|               | C08            | Driving a Nuclear sub-                         | \$19,10   | 9          |  |
| 4D            |                | Fast Attacks and Boomers                       | 1         |            | 70.4   |
|               | C01            | Boomers, Case, Video, Launch control panels.   |           | \$57,700   | Was:Sub Interior, bunk, locker, shower, drill, me  |
|               | C02            | Tech stn & I&T Missiles/Navigation , Nose cone | +         | -          | Artifact Case  |
| _             | C03            | Innovation and Tech: Interactive media         | -         | 1          | Crew stories: Interactive media  |
|               | C04            |  | +         | \$9,700    | Crew stories: interactive inedia   |
| -             |                | Driving a Nuclear sub, Control panels x 5      | -         | \$69,020   |  |
|               | C05            | Tech stn: Sonar, I&T sonar, I&T quieter        | -         | \$101,670  |  |
|               | C06            | Innovation and Tech: Interactive media         |           | \$9,700    |  |
|               | C07            | Cat and Mouse interactive, Clandestine ops     |           | \$27,310   |  |
|               | C08            | Missions Video                                 |           | \$10,560   | Was: Fast attack intro video   |
|               | C09            | Sculpin Graphics                               | 1         | \$2,750    |  |
|               | C10            | Guardfish grapics                              |           | \$2,750    |  |
|               | C11            | Batfish, graphics, case                        |           | \$29,370   |  |
| Æ             |                | Fest Attecks                                   |           |            |  |
|               | 601            | Fost Attack intro graphics, video, skipjack    | \$18,400  |            | Infrastructure only, A/V Hdw. and media in adm   |
|               | <del>CO2</del> | Innevation and Tech: Sener                     | \$44,000  |            |  |
|               | 603            | Innovation and Tech: Quieter Running           | \$44,000  |            |  |
|               | 604            | Innovation and Tech: Interactive media         | \$9,700   | 70         | Klosk only, A/V Hdw. and media in admin line   |
|               | CO5            | Clandestine ops: Guardfish, Sculpin, Parcha-   | \$14,200  |            | The state of the s |
| _             | 606            | Cet and Mouse interactive                      | \$21,000  |            | Infractrusture only ADI Lides and model to 4   |
| -             | 000            | out and mouse interactive                      | \$21,000  |            | Infrastructure only, A/V Hdw. and media in Adm   |
|               |                |  |           |            | 77.00  |
| F             | 10             | Crew life in Cold War                          | -         |            |  |
| -             | C01            | Life on board Intro: graphics                  |           |            | Added partitions   |
| -             | C02            | Menhaden Case                                  | \$11,600  |            | added second case  |
|               | C03            | Crew stories: Interactive media                | \$9,700   | \$9,700    |  |
| ]             | C04            | Sub interior, case, Toddlers busy wall         | \$74,300  | \$138,225  | Added for props etc  |
|               | C06            | Earn your Dolphins: Interactive Media          |           | \$9,700    | Relocated  |
| G             |                | Mini Theater                                   |           |            |  |
| _             | C01            | Mini Theater Batfish and others                | \$20,500  | \$18,720   | Infrastructure only, A/V Hdw. and media in adm   |
| $\rightarrow$ | <del>C02</del> | End of the Gold war - graphics                 | \$3,850   |            |  |
| -             | 603            | Benner graphies above                          | \$13,500  |            |  |
| н             |                | End of the Cold War                            | 1.,,,,,,  |            |  |
|               |                |  | -         | M.0FA      | includes fin wall and arenhine   |
| Seni          | MUNEUM         | End of the cold war: Graphics                  | 4040 F14  |            | Includes fin wall and graphics   |
| D             |                | TODAY'S SILENT SERVICE                         | \$363,500 |            | Was:Sub Interior, bunk, locker, shower, drill, mes   |
| A             |                | THE SUBMARINE FORCE IN TODAY'S WORKD           |           |            | Artifact Case  |
| $\rightarrow$ | C01            | Sub Roles & Missions today: Graphics & Video   | \$47,500  | -          | infrastructure & A/V Hdw. Media in admin line.   |
|               | C01            | Curved structure - timeline graphics           |           | \$ 51,300  |  |
|               |                | Harry potter case                              |           | \$ 2,050   |  |
|               |                | Clean sweep broom case                         |           | \$ 6,500   |  |
|               |                |  |           |            |  |
| $\neg$        |                | Tomahawk Fragment mount                        | 10        |            |  |

|     |        | 2 videos  |   |                     | \$ | 9,100               | Gear and mount                                 |
|-----|--------|---|---|---------------------|----|---------------------|--|
|     | 1      | Graphics units (vertical panels at case)                          |   |                     | \$ | 10,600              |  |
|     | C02    | Modern Weapons - D5 Missile mock up                               |   | \$95,000            | \$ | 89,000              |  |
|     |        | Missile graphic   |   |                     | \$ | 3,300               |  |
|     |        | MK48 Torpedo mount and graphic                                    |   |                     | s  | 7,500               |  |
|     | C03    | SSN's   | 1 | \$25,000            | -  | 11,600              |  |
|     | 11     | Cese  |   |                     | \$ | 14,100              |  |
|     |        | SSN feature models  | 1 |                     | \$ | 18,900              |  |
|     | 1      | Surfboard protective panels                                       | + |                     | \$ | 4,200               |  |
|     | C04    | SSBN's  |   | \$27,000            | -  | 10,500              |  |
|     | 1      | Case  | 1 |                     | S  | 11,600              |  |
|     |        | SSBN Feature models   | 1 |                     | s  | 24,600              |  |
|     | C05    | SSGN's  | + | \$28,500            | -  | 9,900               |  |
|     | 1      | Case  |   |                     | s  | 14,100              |  |
|     |        | SSGN Feature models   | - |                     | s  | 36,900              |  |
| _   | C06    | Crew stories: Interactive media                                   | 1 | \$9,700             | -  | 11,050              | Infrastructure & A/V Hdw. Media in admin line. |
|     | C07    | Today's Submariners- jobs on board: graphics & video              | 1 | \$29,700            | -  | 19,900              | From 05C - C01 Infrastructure & A/V Hdw. Med   |
|     | 100/   | Video   | + | 420,700             | S  | 5,200               | Gear and mount                                 |
| _   | C08    | Polar Missions  | + | \$22,400            | -  | 4,600               |  |
| -   | 1000   | Case and artifacts  | - | 423,100             | 1  | \$9.950             |  |
|     | 1      | Milwork   | + |                     | -  | \$8,200             |  |
|     | +      | Benches   | + |                     | -  | \$4,700             |  |
| 05B | +      | CHANGING EXHIBITS AREA  | + |                     | -  | \$4,700             |  |
| OOB | C01    | Future of the force: Graphics, artifacts, models, video           | + | \$30,500            | S  | 30,800              | Infrastructure & A/V Hdw. Media in admin line. |
|     | C02    | Inspiration: Projects and Research;                               | - | 400,000             | \$ | 15,300              | milhwork, posting wall                         |
|     | C03    | Imagine future subs: Video and millwork                           | + |                     | \$ | 12,500              | millwork, posting waii                         |
| _   | C04    | Visitors idea wall  | + |                     | \$ |                     | milwork, posting wall                          |
|     | C05    | Innovation cart x 2   | + |                     | \$ | 9,400               | Self-guided LED program                        |
|     | COS    |   | + |                     | \$ |                     | Sen-guided LED program                         |
| 96G | +      | Remus cradle with graphic   | + |                     | 3  | 6,650               |  |
| 300 | G01    | The Submeriner Community  Today's Submeriner Treathing antifactor | - | 625.000             | -  |                     |  |
|     | 602    | Today's Submariners" graphics, artifacts                          | + | 69,700              | -  |                     |  |
|     | C03    | Earn your Dolphins: Interactive media                             | + | 613,500             | -  | -                   |  |
|     | C03    | Benner graphics above   |   | \$171,500           | -  |                     |  |
| 8.0 | 01.000 | EXTERIOR EXHIBITS   | - | \$171,000           | 1  | STATE OF THE PARTY. | Now 01D - C01                                  |
| 96A | +      | Memorial  | - | 010 000             |    |                     | Now OID - COI                                  |
|     | -      | Interpretive graphic  | - | <del>\$10,000</del> | _  |                     |  |
| )6B | -      | Lanai   | - | 47700               | _  |                     |  |
|     | +      | Interpretive graphics × 3   |   | <del>\$7,500</del>  | _  |                     | Now 01F - C01                                  |
| )6C | +      | Bowfin  | - | 040.000             | ,, |                     | N  |
|     | -      | Entry graphic   | - | \$10,000            |    |                     | Now 01G - C01 & 2                              |
| )6D | +      | Subs through WW2  | - |                     | _  |                     |  |
|     | 1      | Interpretive graphics x 10  | - | \$80,000            |    |                     | Now O1J  |
| )6E | +      | Deterrence: Submarine weapons                                     | - |                     | -  |                     |  |
|     | 1      | Interpretive graphics x 8   |   | \$64,000            |    |                     | Now O1L  |

|                   | \$118,214   | \$109,351   | Fabrication Bond - 2%    |
|-------------------|-------------|-------------|--------------------------|
|                   | \$886,607   | \$820,130   | Contingency - 15%        |
| Changed to 1 year | \$118,214   | \$218,701   | Escalation - 2% per year |
| Assume tax exemp  | \$0         | \$0         | Allowance for texes      |
|                   | \$7,033,748 | \$6,615,716 | GRAND TOTAL              |

#### Assumptions:

1. Power distribution and exhibit lighting in GC scope