AMHS Vessel Deferred Maintenance FY 2010

Reference Number: 42001

Depart of Transportation & Public Facilities

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MSD Room	CO2 Room	Bow Thruster	Naming Convention		Rebuild EOS Electrical Transit	Forepeak SW Ballast Tank	Chain Lockers (P/S)	Shaft Alley	Lifeboat Davit	Passenger Elevator Doors	Auto Fire Dampers in MVZ Bulkheads	General Alaim Signage	Oil Tank	MCC Space	Top of Mooring Compartment (Port)	HVAC Enclosure (HPU3)	Lower Hold Level	Mens Toilet/Shower	Project Title			
15.00	13,00	- IS.00		15.00	12.00	1300	10.00	10.00	10.00	10.00		10.00	6.00	5.00	5.00	3.00	2.00	2.00	(\$000)	Cost	m mg	
72.0	97.0			27.0			93.0			53.0		43.0			12.0		4.0	2.0	(\$000)	Total		
15.0	5.0	15.0		15.0	12.0	300	10.0	10.0	10.0	10.0		10.0	6.0	5.0	5.0	3.0	2.0	2.0	(\$000)	Cost		
72.0	5/.0	42.0		27.0	12.0	100	93.0	73.0	63.0	53.0		43.0	23.0	17.0	12.0	7.0	4.0	2.0		Total	GF	
op within the next 5 years [by 2011].	and frame. The overhead needs to be checked for the extent of structural damage from rust. The rust spots appear to continue up on the vehicle deck indicating the need for possible			27.0 Update the tank & void names on the vessel to create a standard for all future reference to the tanks & voids. This would include the Sounding	2		paint compartments to prevent any additional corrosion.		Replace stair treads with new unpainted treads.	PCRefer to S&A 054. [1.4.2008Mike Aholt, Beacon Professional Services] The vessel passenger elevator is not currently compliant with 1974 SOLAS regulations. It is recommended that a request for a waiver be sent to MSC to approve the current configurat	at least 11 gauge thickness, thereby affording suitable A-0 protection in some locations Structural fire protection insulation is fitted only on the galley exhaust ductwork. [1.4]	s of		nt the steel deck in the MCC Space.	12.0 Henew wasted deck and modify drain to provide proper drainage from thecompartment.		Monitor and renew coating systems as needed. A structural survey [should] be conducted to determine the extent of the damage in the overhead.	2.0 Determine the location of the vents from the drain piping. Ensure that the vents have not been painted over. Replace drain pipes with new if blocked vents are not the issue. Explore the use of PVC or similar types of pipes to prevent problems seen with				
Tustumena	Malaspina	Chenega	Taku		Aurora	Tustumena	Tustumena	Malaspina	Tustumena	Matanuska	Matanuska	Aurora	Malaspina	LeConte	Taku	Chenega	Tustumena	Tustumena	(City)	Location		
1-40	1-40	1-40		1-40	-	1 1	1-40	1-40	1-40	1-40		1-40	1-40	1-40	1-40	1-40	1-40	1-40	District	Election		

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venicie Deck pipe replacement		Open Deck hand rail repair	Life Boat Davits		Wheel House magnetic compass	Railings				Vehicle Elevator Limit repairs		Fire Station Modifications	Salt Water Pipe repairs	!	Steam Duct Heaters And Convectors	Towing & Mooring Equipment	Stability Software Program		L4 Panel wire corrections			Wheel House navigation improvements		Steering Gear Room		Steam Condensate Piping				Capstans	Chain Locker, Port	Main Engine Room			Observation Lounge door replacement	Wheel House fire boundaries		Standing Water & Deck Corrosion			Priority Project Title	5t.	
	75.00	65.00		50.00	50.00				45.00		45.00	45.00		35.00	30.00	30.00		30.00	,		30.00		26.00		25.00				25.00	20.00	20.00			20.00	20.00		20.00			16.00	(\$000)	Cost	Project
	794.0	719.0		654.0	604.0				554.0		509.0	464.0		419.0	384.0	354.0		324.0			294.0		264.0		238.0		-		213.0	188.0	168.0			148.0	128.0		108.0			88.0	(\$000)	Total	Running
	75.0	65.0		50.0	50.0				45.0		45.0	45.0		35.0	30.0	30.0		30.0			30.0		26.0		25.0				25.0	20.0	20.0			20.0	20.0		20.0			16.0	(\$000)	Cost	GF
2	794.0 R	719.0 R	ħ	654.0 A	604.0 R	۵	30	Ŋ	554.0 P		509.0	464.0 F		419.0 F	384.0 F	354.0 L	۵	324.0 L	C	>	294.0 F	Ä	264.0 li	 S	238.0 lı		=		213.0	188.0 F	168.0 F	00	<u> </u>	148.0	128.0 F		108.0 N	0		88.0 /	(\$000)	Total	Running
and fuel lines	ater, ballast	Repair the corroded handrail structure to the deck immediately.	hydraulics be consulted for details.	654.0 A design change is required and the author of this item does not know what the extent of the changes would be. It is recommended that Eagle	Relocate or otherwise correct mag compass for proper operation	disimilar metal corrosion.	Remount electrical cable mounts using compatible metals to prevent	stanchion/deck interface. Repair or renew railing sections are required.	554.0 Perform a detailed survey of the railings pay particular attention to the	Repair photobeams to provide safety protection for crew and passengers.		Replace one 1-1/2" sweep elbow at FS60 and one 1-1/2" 6" nipple at FS63. Columbia	Survey report.	419.0 Renew flanges, valves or isolation kits as described in the Fleet Condition	384.0 Replace all sealed steam traps.	354.0 UnknownTBD	and incorporate this into the vessel.	324.0 Using the stability software report within the FCS, find a suitable software	circuit from the JB to the panel.	Aux engine room and run a smaller size cable appropriate for a 50 amp	294.0 Pull back approximately 50 feet of the oversize cable to a junction box in the	repeater.	264.0 Instal a Comm. Nav. 2001 Auto Pilot above the ECDIS that acts as a helm	steering control station.	238.0 Install a steering repeater in the steering gear room adjacent to the manual	conjunction with the refurbishment of the surrounding compartments.	the steam convectors should be replaced. Replacement should occur in	The steam duct heaters and convectors should be replaced. The valves for		188.0 Replace the motor controllers for the capstans.	Remove chain and conduct a full survey.	automatic fire dampers should be installed, controllable from the EOS.)	(If the ship is repowered, the ventilation system should be replaced. New	Modify ventilation eyetom as required to most existing noise requirements	128.0 Replace fire door leading to lounge.	machinery spaces.	108.0 Make corrections to fire boundaries between the wheelhouse and main	attachment to the existing	rife deck structure, surrounding the capstan and providing a gasketed seal. The housing is to include a drain hole, a perimeter flance with bolt holes for	88.0 An aluminum housing shall be fabricated and installed to the underside of	Project Description		
Malaspina		Columbia	Kennicott		Chenega	LeConte	•			Kennicott		Columbia	Fairweather		Malaspina	Matanuska	Kennicott		Columbia			Fairweather	-	Malaspina	-	Malaspina				Tustumena	Matanuska	Malaspina			Malaspina	Fairweather		Taku			(City)	Location	
	1-40	1-40		1-40	1-40				1-40		1-40	1-40		1-40	1-40	1-40		1-40			1-40		1-40		1-40				1-40	1-40	1-40			1-40	1-40		1-40			1-40	District	Election	

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Power Conditioning			Potable Water Pumps		Power Conditioning		Main Switchboard	Steel Renewal				Underwater Body coatingss			SSDG No. 2 Overhaul	Bow Thruster maintenance	1	Passenger Elevator Doors			Anchor replacement		CO2 System improvements		Power Distribution Systems		Power Distribution System		Main Breaker		Sliding Bridge Door Locks	CO2 Room steel repairs	Water Maker rehab	- Ma Observation Founds will now rebails	Capie nuris 100 Close to Exhaust	Coble Birms Too Close to Exhaust	Handicap Head/Toilet/Shower			Auto Fire Dampers in MVZ Bulkheads				Priority Project Title		
ļ		150.00		150.00		150.00	150.00				125.00	· · · · · · · · · · · · · · · · · · ·		120.00	120.00		120.00			100.00		95.00		90.00		80.00		80.00	0	80.00	80.00	80.00	0	80.00	000	75.00			75.00				75.00	(\$000)	Cost	Project
		2,949.0		2,799.0		2,649.0	2,499.0				2,349.0			2,224.0	2,104.0		1,984.0			1,864.0		1,764.0		1,669.0		1,579.0		1 499 0	,	1 419 0	1.339.0	1.259.0	;	1,099.0	10000	1,019.0			944.0				869.0	(\$000)	Total	Running
		150.0		150.0		150.0	150.0				125.0			120.0	120.0		120.0			100.0		95.0		90.0		80.0	0	80.0	00:0	80.0	80.0	80.0	0	80.0	000	75.0			75.0				75.0	(\$000)	Cost	GF
		2,949.0		2,799.0		2,649.0	2,499.0				2,349.0			2,224.0	2,104.0	,	1,984.0			1,864.0		1,764.0		1,669.0		1,579.0	1, 10010	1 499 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 419 0	1 339 0	1.259.0	,	1 179 0	• 0000	1,019.0			944.0				869.0	(\$000)	Total	Running
man the lorward.	not possible the aft connection would be a higher priority	2,949.0 Add additional 200 amp shore power connections near the forward		of the incomming shore	Approx estimate cost \$150,000	mming shore	vitchboard issues as covered on the FCSI		and renewing the main deck tees if some are found to be wasted as shown	the #6 ballast tank, this could provide access into this tank for sandblasting	2,349.0 Crop out and renew the areas of clad welding. One of these areas is over		Apply new underwater hull system with Interspeed or Intersmooth system	2,224.0 Perform total removal of the underwater hull system by abrasive blast grit.	2,104.0 Overhaul engine as required		tor, rotor blades, steering shaft and replace all bearings and	1974 SOLAS regulations	Professional Services The vessel passenger elevator is not currently	1,864.0 PC The passenger elevator doors are not tight at each deck level. The	Ä.	r. Anchor most likely will be a long lead-time		nould be added into the system and the system		1,579.0 The condition of the cable should be monitored for insulation deterioration	Replace breakers or otherwise reconfigure existing. Expected cost \$80,000 Fairweather		Replace breakers or otherwise reconfigure existing. Expected cost \$80,000 Chenega	Contoo in program and accompany and accompany	locks ASAP	air steel corrosion		be not acceptable for		erwise protect this existing cable run from the heat of the		complies with the current ADA regaulations. Determine method to prevent	944.0 Recommend conducting an assessment of this space to make sure it		SOLAS regulations, a total of nine automatic fire dampers, mostly in the	NCNo visible indicators are provided on fire dampers. [1.4.2008Mike		Project Description		
rairweather			Columbia		Chenega		Aurora	LeConte				Kenni cott			Columbia	Columbia		Matanuska			LeConte		Malaspina		Fairweather		=airweather		Chenega		Tustumena	Malaspina	Kennicott	Zerillicon	Chenega	2	Tustumena			Matanuska				(City)	Location	
		1-40		1-40		1-40	1-40				1-40			1-40	1-40		1-40			1-40		1-40		1-40		1-40		1-40	-	1-40	1-40	1-40	ā	1-40		1-40			1-40				1-40	District	Election	

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Auto Fire Dampers in MVZ Bulkheads	· · · · · · · · · · · · · · · · · · ·		Auto Fire Dampers in MVZ Bulkheads	Waste Heat Boilers modification		The Dear of Life Cashe pipe ince	I ife Boat & ERB Davits nine mod	Engine re-power	Vehicle Space Ventilation System upgrades		-	Fire Detection System replacement		Power management System	Shaft Alley	2		Watertight Doors		Fidley Natural Exhaust Vent		#6 Ballast I ank pre & paint			Vehicle Space HVAC noise level	'A' Class Doors				CO2 System re-configure	Lifeboai Davis		Open Deck	- I Cook Hard	Priority Project Title		
		240.00	68.00	J	/0.00	78 00	8.00	25,000.00			650.00		600.00	500.00	ļ		500.00		500.00		280.00)))		260.00	260.00				250.00	220.00	335 00	200.00	1,0:00	175.00	(\$000)	Chet	Project
		32,743.0	32,503.0		32,435.0	22 725 0	32,357.0	32,349.0			7,349.0		6,699.0	6,099.0			5,599.0		5,099.0		4,599.0			4,319.0	4,059.0				3,799.0	0,040.0	3 540 0	3,324.0	0,124,0	3 1940	(\$000)	Total	Running
		240.0	68.0		/6.0	79 0	8.0	25,000.0			650.0		600.0	500.0			500.0		500.0		280.0			260.0	260.0				250.0	223.0	225.0	200.0	170.0	175.0	(\$000)	20 5	GF
 		32,743.0	32,503.0 t		32,435.0	33 435 0	32,357.0	32,349.0			7,349.0		6,699.0	6,099.0		<u></u> .	5,599.0	. <u></u>	5,099.0		4,599.0			4,319.0	4,059.0				3,799.0	0,040.0	3 5 40 0	3,324.0	0,124.0	3 104 0		Total	Running
manual closing from each side of the boundary.	Where new fire dampers will be needed, such as for the vehicle space (Refer to VNT 015), and where dampers must be relocated to provided	32,743.0 Where installed, existing fire dampers are fitted adjacent to the bulkhead.	32,503.0 Modify system so that operating mechanisms are readily accessible (Refer to VNT 008), and mark in red light-reflecting color.	stand pipes.	safety valves themselves to provide easier access to the valves by using	Modify and resource expenses the firmed Additionally releases the	32,357.0 Modify the davit systems for the lifeboats and FRB to prevent the accidental		lers.	The vehicle space ventilation system should be completely modified and replaced to meet the current regulatory requirements. New motorized.		installed throughout the vessel. The system should serve all passenger, crew and work areas.	6,699.0 A centralized, comprehensive fire detection and alarm system should be	6,099.0 Install the Fuel Management System as outlined in the Fleet Condition Survey item	space should hold up satisfactorily until at least 2010.	USCG approved door and frame. Otherwise, with regular maintenance, this	The plate type access door from the space should be replaced with a	Routine maintenance is required to prevent further deterioration.	5,099.0 Inspect steel in areas of corrosion, repair steel as necessary. Clean, prime and recoat.	approval.	4,599.0 Fabricate and install two gooseneck vents with a total of 20 sq feet of area on top of the house. Formal plans may have to be presented for USCG		The overhead should be blasted and painted along with about 400 square feet of other angles and frames in the tank. The majority of the tank has a		4,059.0 Hecommend modifying system to comply with the regulations and installing silencers to reduce noise.	1974 SOLAS regulations regarding "A" Class doors	Professional Services] The vessel is not currently in compliance with the	PCSee SOLAS Insulation Upgrade Matrix and insulation markup plan		3,343.0 install additional SOC bottos to adequately protect both spaces intentional and AMR.	Overhaul.	3,324.0 Next 5-year davit inspection should be scheduled for (Oct2012) the FY13	faulty doors and door seals.	Repair corrosion in hulkheads, find and repair source of corrosion. Repair	Project Description		
Matanuska			Matanuska	Malaspina		Nerriicon	Konnico#	Columbia	Malaspina			Malaspina		Columbia	Tustumena			Malaspina		Columbia		LeConte			Columbia	Matanuska				Columbia	Tustumena	!	Aurora	(019)	(City)	- Anation	
		1-40	1-40		1-40	5	1-40	1-40			1-40		1-40	1-40			1-40		1-40		1-40			1 -40	1-40				1-40	-40	4 40	1-40	-	1 40	District	Election	

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Oily Water Separator tank repair	Laundry space steel deck repair	Fin Stabilizer Room Platform	Accommodation Ventilation Systems	Vehicle Space Ventilation repairs	Vehicle Space Ventilation controls	Agilicia Obarca stadi na domina	Vehicle Space steel tip downs	Vehicle Space insulation repair		Steward's Stores steel repair	Character Character and Consider	Steering Gear Compartment coatings	Engineer's Operating Station Steel Repairs		Accommodation Spaces HVAC cleaning	Steam Table Water Filling System & Heating	Sharing Coupling repair	Reference Cell Replacement		Reefer Drawers (Second Cook Station)	Dosfor Democy (Cwo) Hairu Hair Hepair	Marine Growth Inhibitor install		Lifeboat covers	Lifeboat registration	Life Raft Radar Transponders	Electrical Cabling replacement	Controllable Pitch Propeller System) - - - - - - - -	Bow I nruster Compartment mods	Bilge And Ballast Valve replacement	'B' Class Door Openings		Project Title	
40.00	110.00	90.00	60.00	130.00		90.00	160.00	; ;	ç. Ç.	8	80.00	80.00		220.00	160.00	34.00	220.00		3700	56.00	Ta.00	.	130.00	180.00	15.00	26.00	252.00		.;oc	350.00	68.00		150.00	(\$000)	^
41,435.0	41,395.0	41,200.0	41,195.0	41,135.0		41.005.0	40,915.0		40,733.0	755.0	40,675.0	40,595.0		40.515.0	40,295.0	40,135.0	40,101.0	0,00	30 881 0	39,700.0	39,732.0	20 700 0	39,714.0	39,584.0	39,404.0	39,389.0	39,363.0		9,-	33,311.0	32,961.0	00,000.0	30 803 0	(\$000)	Running
40.0	110.0	90.0	60.0	130.0		90.0	160.0		0.0	8	80.0	80.0		220.0	160.0	34,0	0.02		37.0	56.0	- F8.0	•	130.0	180.0	15.0	26.0	252.0		, 00000	350.0	68.0	0.0	1500	(\$000)	GF
41,435.0 F	41,395.0	8	41,195.0	41,135.0 F	(0	41.005.0	40,915.0		40,733.0 F	10 7FF 0 F	40,675.0	40,595.0		40.515.0	40,295.0	40,135.0 N	40,101.0	9,00	30 881 0	39,788.0	39,732.0	700 00	39,714.0	39,584.0	39,404.0	39,389.0	39,363.0		39,11.0	33,311.0	32,961.0	02,000.0	30 803 0	(\$000)	Running
41,435.0 Replace failing oil tank	41,395.0 Crop and renew affected steel.	support platform.	41,195.0 Replace for repair the dampers that must be tied open.		specifications from 2000 upgrade.	41,005.0 Correct the vehicle space ventilation controls according to design		corrosion. Area aft of insulation on Main De	prevent further insulation damage. Prep and paint area around the interface between the deck and the bulkhead to protect the hull and deck from	Will new steel plate.	40,675.0 Determine the source of the leak and repair. Crop out bulkhead and renew	40,595.0 Henew coatings within the space with areas of complete failure receiving priority.	The deck plate is wasted and is in need of replacement to remain compliant. Taku		40,295.0 Clean Accom space HAVAC system.	MEPLACE STEAM TABLE SHELF WITH NEW STAINLESS STEEL WITH HEAT LAMPS UNDERNEATH. HOOK UP WATER FILL SYSTEM TO HOT WATER WITH FLOAT VALVE OR AUTO STOP SO THAT IT DOES NOT OVER FLOW	40,101.0 Replace mult couplings with new to overcome internal defects.	The lead time on this material is unknown so this will need to be research prior to the upcoming overhaul period.	20 881 0 Replace the reference cell with new liking a CAPAC tech region and parts	39,788.0 Replace refer drawers with new	39,732.0 Make repairs/ replace national in two passageway	seachest to prevent engine overheating and down time.	39,714.0 Chlorinators or other marine growth inhibitors should be installed in each	39,584.0 Repair or renew the lifeboat fiberglass covers.	39,404.0 Correct the port of registration on the lifeboats.	39,389.0 New transponders procured and installed at next recertification	39,363.0 Cabling with poor insulation should be replaced by 2010. A full insulation survey should be done to determine where higher risk cables are. This item for partial only.	gaskets, etc. with new. Test run, certify to n	piping, valves and controls as necessary. Open OD box, remove all components. Replace all wear parts with new, replace all O-rings, seals,	33,311.0 Install an inclined ladder similar to those on the Laku and Malaspina.	32,961.0 The bilge/ballast system valves should be replaced with new valves.	gap under the door is no greater than 78 in 2.	22 803 0: Passenger cabin doors must be modified (to meet regulations) so that the	Project Description	
Tustumena	Tustumena	Tustumena	Tustumena	Taku	Taku	dNu	Takı	Taku		laku	1	Taku	Taku		Taku	Matanuska	Matanuska	Matanuska		Matanuska	Matanuska	Matanuska		Matanuska	Matanuska	Matanuska	Matanuska	Matanuska		Matanuska	Matanuska	Matanuska	(019)	(City)	
1-40	1-40	- - -	1-40	1-40		1-40	1-40		4	5	1-40	1-40		1-40	1-40	1-40	1-40		1-40	1-40	1-40		1-40	1-40	1-40	1-40	1-40		-140	1-40	1-40		1-40	District	Clookion

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pringe Console mous	Bridge Coppele mode	Bridge Console mods	Black water I ank level indicator	Additional Snorepower Connections				Wheelhouse window leak repair	Steam And Condensate Piping replacment			Speed Log transducer	Purser's Information Desk HVAC	Paint Locker coatings		Con Com roamigo	Open Dack costings	MSD tank repair/ replacement		MCC Room repair and coatings	Housetop coatings	Forepeak coalings	Forecastle Lookout Point	Fast Rescue Boat (FRB) Davit coatings	Engineers Head floor coverings	Engine Room coatings	Emergency Generator & Fan Room	Docking Intercom System	Depth Sounder replacement	Crew Shower/Head Aft	Bridge Wings (P/S) steel repair			Bridge Catwalk Stanchions	Bilge And Ballast Pump replacement	Anchor Chain replacement	Vehicle Space deck steel replacement	Stbd Main Engine overhaul		Side Port Door deck re-coat	Purser's Stateroom (S/R 108) PBX config	Cit main Figure 64011000	Port Main Engine overhaud	Priority Project line		The state of the s	
	6.00		15.00	8			28.00	8.00			140.00	30.00	60.00			40.00	120.00		80.00	00.00	96.00	86.00	15.00	38.00	15.00	34.00	25.00	65.00	22.00	33.00	3		35.00	18.00	20.00	160.00	240.00		130.00	30.00	10.00	40.00	130.00	(\$000)	9091	Ç,	Project
	43,276.0		43,255.0				43,235.0	43,207.0			43,199.0	43,059.0	43,029.0		j	42.969.0	42,929.0		42,809.0	42,729.0	42,669.0	42,573.0	42,487.0	42,472.0	42,434.0	42,419.0	42,385.0	42,360.0	42,295.0	42,273.0	10 070 0		42,238.0	42,203.0	42,185.0	42,165.0	42,005.0		41.765.0	41,635.0	1,000.0	41 605 0	41,565.0	(\$000)	909	T 242	Running
	6.0		15.0	3			28.0	8.0			140.0	30.0	60.0			40.0	120.0		80.0	0.0	96.0	86.0	15.0	38.0	15.0	34.0	25.0	65.0	22.0	35.0	2		35.0	18.0	20.0	160.0	240.0		130.0	30.0	6.0	400	130.0	(\$000)		+	GF
 	43,276.0		43,255.0	0			43,235.0	43,207.0			43,199.0	43,059.0	43,029.0			42.969.0	42,929.0		42,809.0	42,729.0		42,5/3.0	42,487.0	42,472.0	42,434.0	42,419.0	42,385.0	42,360.0	42,295.0	42,273.0	0000		42,238.0	42,203.0	42,185.0	42,165.0	42,005.0		41.765.0	41,635.0	71,000.0	41 605 0	41,565.0	(\$000)	100	Tata	Running
increase ventuation inside the bridge consoles to cool the equipment.	incident the ballon on the policy to so the second	maintenance.	43,270.0 Modify the consoles to allow easy removal of the access panels to facilitate		riot possible the art connection would be a nigher priority	starboard door and at the aft starboard mooring platform. If both	43,235.0 Add additional 200 amp shore power connections near the forward	43,207.0 Replace window seal	The remaining ACM insulation should be replaced with non-ACM.				43,029.0 Improve ventilation to this space by modifying existing system	blasted, primed and repainted.	for wastage. Renew steel where necessary. The space should be sand-	42,969.0: The compartment needs to be thoroughly cleaned and the steel inspected	Stricture about he conditioned and pointed as pooled in localized areas	Stainless Steel.	316	Determine the cause of the visible corrosion and take corrective action.	Clean, renew, prime and repaint steel surfaces, as needed.	42,5/3.0 Localized blast and recoat the lower horizontal plating.	42,487.0: Prep and paint as required.	42,472.0 Prep and paint FRB davit to protect steel structure.	Replace deck covering. Prep and paint rust on door sill.	Clean bilge, monitor tank and recoat as needed.	42,385.0: Replace the door and frame with new	42,360.0 Intercom system overhaul to include updated as-built conditions.		Replace the deck covering in the head and improve the lighting levels.	accessed by the crew.	coatings on this area which is often neglected because it can not be	42,238.0 Renew steel under the port compass stand. Prep and paint to renew	42,203.0 Repair stanchions as required.	42,185.0. The bilge/ballast pump is old and should be replaced.	42,165.0 Replace shots 3-5.	irs to deck in way of vehicle doors.	time engine will have approx. 60,000 hours total.	41.765.0 Engine is due for a 30.000 hour overhaul during next availability. At that	41,635.0 The deck in way of the doors should be coated to reduce corrosion.	stateroom announcements.	41 605 0 Beconfigure PBX to receive crew announcements in lieu of passenger		Project Description		A STATE OF THE STA	
Chenega		Chenega	Chenega	Chenega)			Aurora	Aurora	•		Aurora	Aurora	Aurora		, Adi Ci a	^	Aurora		Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora	Aurora			Aurora	Aurora	Aurora	Tustumena	Tustumena		Tustumena	Tustumena	- dotalliona	Tuetumena	(City)	Location	1 2004	
	1-40		1-40				1-40	1-40			1-40	1-40	1-40			1-40	1-40		1-40	1-40	1-40	1-40	1-40	1-40	1-40	1-40	1-40	1-40	1-40	1-40			1-40	1-40	1-40	1-40	1-40		1-40	1-40	1	1-40	1-40	District	District	Flection	

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No 5 DB FO Tank (CI) Open and inspect		MSD Room coatings	Mooring Compartment (Stbd) cable replace	Mooring Compartment (Port) cable replace	Main Engine Room coatings	System	Main Engine Pneumatic Control & Shutdown				INIGHT DOCK TO DOCKING DOCK CHOW GOOD TO S	Main Dock to Second Dock Craw Ougsters		Fwd Observation Lounge window leaks		Flushing Pumps replacement	Fire Screen Door hold back install			Fathometer replacement	Fan Room (50-57 Port) coatings		Fan Hoom (100-104 Port) coatings	Emergency Switchboard Batt Replacement	Crew Stairway deck coating/ covering	Chain Locker coatings	CCTV System modifications				Bridge Tollet deck covering	Deiden Teilet deck perseinen coamige	Bow Thruster Compartment coatings		Botter re-tube	bilge And Baliast System mods		Battery Room coatings	Auxiliary Engine Room coatings	Air Piping replacement		Air Compressor replacement	10-Inch Sewage Vent Line Replacement	Water Jet hyd repair	Firemain valve replacement			Capstan area talk back speaker		rity Project Title	X.	
0.00	ر د د	48.00	13.00	13.00	60.00					90.00			80 00		60.00	36.00			90.00	26.00	,	25.00	25.00	16.00	48.00	160.00				180.00	15.00			230.00	340.00		65.00	16.00	75.00		18.00	48.00	80.00	10.00			26.00	0	18.00	(\$000)	Cost	Project
10, 171:0	45 179 0	45.167.0	45.119.0	45,106.0	45,093.0					45,033.0	0000	44,940.0	0 EVD VV		44.883.0	44,823.0			44,787.0	44,697.0		44,671.0	44,646.0	44,621.0	44,605.0	44,557.0				44,397.0	44,217.0			44,202.0	43,9/2.0		43,632.0	43,567.0	43,551.0		43,476.0	43,458.0	43,410.0	43,330.0			43,320.0	1,000	43 294 0	(\$000)	Total	Running
0	50	48.0	13.0	13.0	60.0					90.0		00.0	80.0		60.0	36.0			90.0	26.0		25.0	25.0	16.0	48.0	160.0				180.0	15.0	100		230.0	340.0		65.0	16.0	75.0		18.0	48.0	80.0	10.0			26.0	Ċ	180	(\$000)	Cost	GF
	45 179 0	45.167.0		45,106.0	45,093.0					45,033.0		44,540.0	0.570 77	.	44.883.0	44,823.0			44,787.0	44,697.0		44,671.0	44,646.0	44,621.0	44,605.0	44,557.0		<u>.</u>	. <u> </u>	44,397.0	44,217.0			44,202.0	43,9/2.0		43,632.0	43,567.0	43,551.0		43,476.0	43,458.0	43,410.0	43,330.0		٠	43,320.0	0,50	5		Total	Running
This tank has not been surveyed in several years. Open and inspect tank		The bilge needs to be cleaned and painted.	The electrical cabling should be replaced.	The electrical cabling should be replaced.	45,093.0 The bilge needs to be cleaned and painted.	trips and replace with modern electronic sensors.	modern electrical switches. Remove pneumatic Main Bearing high temp	Reduction Gears, and Turbo low oil pressure shutdowns and replace with	Hemove pneumatic switches and associated tubing from Main Engines,		salle lile lalliy.	some fire reting	Remove doors and door iams entirely replace with new modern doors of	should be repaired to prevent further deterioration.	44,883.0 The window leaks should be repaired immediately. The torn upholstery	44,823.0 The flushing pumps should be replaced.	should only be energized in port.	magnetic hold back run from the nearest unit to each door. Hold backs	44,787.0 Install a magnetic hold back for each door by extending the current	44,697.0 Replace the fathometers with new equipment	structural problems.	44,671.0 The deck should be repaired to prevent further deterioration and possible	44,646.0 The deck should be cleaned and painted in the fan room.	44,621.0 Replace emergency 120 volt batteries.	44,605.0 The stairways should be painted and deck covering replaced.	44,557.0 Prep and coat P/S Chain lockers as needed.	needed to control the cameras and record their images.	installed at the AMHS terminals for security. Along with other components			44,217.0 New deck covering should be installed	or io) and coaled.	delerioration. Reflew steel as flexessary. Space should be blasted (SSEC-	44,202.0 The compartment needs to be cleared and the steet inspected for	43,9/2.0: Replace the old tubing with new.	tanks. See specs developed during federal project /3/80.	43,632.0 Modify the system to include independent piping for pumping out the ballast	43,567.0 Prep and paint the deck.	43,551.0 The bilge needs to be cleaned and painted.	installed.	43,476.0 The compressed air piping should be replaced when new compressors are	43,458.0 The two ships service/start air compressors should be replaced.	43,410.0 Replace approximately 120-feet of vent piping.	43,330.0 Make repairs to hyd system to correct high temp.	environment.	valves with monel or stainless steel valves that will last longer in the marine	43,320.0 Replace the check valves with a different material. Replace the iron ball		43 294 0 Look at adding a talkback speaker in the Forebeak or modifying the controls	Project Description	to the second se	
Columbia		Columbia	Columbia	Columbia	Columbia	Columbia					Columbia			Columbia		Columbia	Columbia			Columbia	Columbia		Columbia	Columbia	Columbia	Columbia	Columbia	:			Columbia	Columbia	. '		Columbia	Columbia		Columbia	Columbia	Columbia		Columbia	Columbia	Chenega	Chenega			Chenega	- 1	(City)	Location	
 	1-40	1-40	1-40	1-40	1-40					1-40		1-40	1.40	,	1-40	1-40			1 -40	1-40		1 -40	1-40	1-40	1-40	1-40				1 -40	1-40			1-40	1-40		1 -40	1-40	1-40		1-40	1-40	1-40	1 -40			1-40		1 -40	District	Election	

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orialt Alley,	Chat Allay	Searchlights	Railings	Railings	Radar Mast	Purser's Office and Stateroom improvements	Bow Thruster Tunnel Marine Growth Reduction	Bottom Paint		Backup Power for Cell Phone Amplifier	Vehicle Doors modifications		Steering Gear Room coatings	Steam Piping replacement	Shaft Alley coatings	Paint Locker door replacement	OWS piping mods		Observation Lounge window leaks & E lighting	No 7 DB FO Tank (Stbd) Open and inspect	No 7 DB FO Tank (Port) Open and inspect	No 7 DB FO Tank (CI) Open and inspect	No 6 DB FO Tank (CI) Open and inspect	rioject line	Droingt Title	
45.00	3	82.00	7.00	8.00	15.00	80.00	68.00		230.00	12.00		230.00	25.00	60.00	25.00	15.00		18.00	75.00	5.00	5.00	5.00	3 5	(a)	Cost	Project
46,187.0	1070	46,142.0	46,060.0	46,053.0	46,045.0	46,030.0	45,950.0		45.882.0	45,652.0	3	45.640.0	45,410.0	45,385.0	45,325.0	45,300.0		45,285.0	45,267.0	45,192.0	45,187.0	45,182.0	45,17.0	(\$000)	Total	Running
30.0	45.0	82.0	7.0	8.0	15.0	80.0	68.0		230.0	12.0		230.0	25.0	60.0	25.0	15.0		18.0	75.0	5.0	5.0	5.0	0.0	(000	Cost	GF
46,187.0	1070	46,142.0	46,060.0	46,053.0	46,045.0	46,030.0	45,950.0		45.882.0	45,652.0	3	45.640.0	45,410.0	45,385.0	45,325.0	45,300.0		45,285.0	45,267.0	45,192.0	45,187.0	45,182.0	45,177.0	(\$UUU)	Total	Running
46.217.0 Solarium heaters need to be prepped and painted.		Carlisle Finch Model X9398-HRE Xenon Arc Searchlights	46,060.0 Perform a detailed survey of the railings pay particular attention to the stanchion/deck interface. Repair or renew railing sections are required on Upper Deck.	led survey of the railings pay particular attention to the interface. Repair or renew railing sections are required on	radar mast as required to eliminate active corrosion.	or and rearrange the stateroom and office to ving quarters	축 트		he vessels underwater body paint shall be inspected. Due to	iverter #2 he cell phone		rator cables and sheaves should be completely inspected for	5	associated valves, traps and controls should be olve removal and disposal of ACM.		45,300.0 The steel plate door to this space should be replaced with a USCG approved fire door and frame. The bulkheads, deck and overhead should be cleaned and painted.	tank	OWS should be relocated about 12 inches higher	¥	This tank has not been surveyed in several years. Open and inspect tank (This tank has not been surveyed in several years. Open and inspect tank (This tank has not been surveyed in several years. Open and inspect tank (This tank has not been surveyed in several years. Open and inspect tank	Project Description		
LeConte		eConte	LeConte	LeConte	LeConte	LeConte	Fairweather	Fairweather		Fairweather	Columbia		Columbia	Columbia	Columbia	Columbia	Columbia		Columbia	Columbia	Columbia	Columbia	Columbia	(City)	Location	
1-40 1-40	5	1-40	1-40	1-40	1-40	1-40	1-40		1-40	1-40	-	1-40	1-40	1-40	1-40	1-40		1-40	1-40	1-40	1-40	1-40	1-40	District	Election	

	-		,	10.0	11,11110	10.00		٦
1-40	Malaspina	he fantail to prevent corrosion	47 144 5	1 5.0	47 144 5	15.00	Eantail	0 1
	Malaspina						Fan Rooms	2
1-40			47.129.5	20.0	47.129.5	20.00		
,	Malaspina	Repair and recoat steel as necessary. Descale and paint rusty pipes.	.,		, , ,		Fan Room	2
1-40			47.109.5	25.0	47 109 5	25.00		
	Malaspina	replacing.		···			Electrical Cabling	2
1-40		47,084.5 All electric cable should be meggered and replaced as required. Due to the	47,084.5	110.0	47,084.5	110.00		
1-40	Malaspina		46,974.5	35.0	46,974.5	35.00	Deck Coatings	2
	Malaspina	eliminate potential areas of standing water. Renew coatings.				<u> </u>	Cross Passage	2
1-40		on deck to	46,939.5	6.0	46,939.5	6.00		
	Malaspina	Repair leaks and recoat steel as necessary. Replace floor tiles and coving.	10,000.0	12:0	10,000.0		Crews Head	N
1-40			46 933 5	120	46 933 5	1000		r
	Malaspina		70,00		70,021.0	Ç	CO2 Room	2
1-40	The Carlotte	Install an automatic hold back door, instead of the manual latch that is	46,9715	30	46,910.5	300	Cil cuit Di canci i aligio	7
1-40	Malaspina	one for all circuite	16,018 F	80	16 018 5	8 00.00	Circuit Breaker Papele	3 N
1-40	Malaspina	rosion, repair and recoat as necessary.	46 910 5	50	46 910 5	500	Chill Room	ا د
1-40	Malaspina	46,905,5 I ne door gasket snould be replaced. The indicator light in the light switch should be replaced.	46,905.5	4.0	46,905.5	4.00	Chill Room	V
5	Malaspina						Camera System	2
1-40		Install the previously purchased cameras to improve security aboard the	46,901.5	0.01	46,901.5	10.00		
1	Ivididapii id	IIIOSE OTI ITIE COLUTTIDIA AITU NETITIICOIL.	10001		1		BOW I nruster	7
1-40	Na la	Capt. Sundt would like to see an omni-directional bow thruster such as	46,891.5	400.0	46,891.5	400.00		<u> </u>
1-40	Malaspina	Clean the bilge area and repair failed coating systems.	46,491.5	15.0	46,491.5	15.00	Auxiliary Machinery Room	2
1-40	Malaspina	Repair leaking fixtures and renew decking.	46,476.5	14.0	46,476.5	14.00	Aft Mens T/S	2
	Malaspina	of the system.			j		Accomodation Space Ventilation System	2
1-40		Add additional access covers inthe overhead for rebalancing and cleaning	46.462.5	5.0	46.462.5	5.00		
	Malaspina	v					Accomodation Space Ventilation System	N
1-40		ystems serving the accommodation spaces should be	46,457.5	35.0	46,457.5	35.00	:	
1-40	Malaspina	nich has been deffered for the past 7 years.	46,422.5	10.0	46,422.5	10.00	Accommodation	2
1-40	Malaspina	Er A approved	46,412.5	12.0	46,412.5	12.00	A/C Compressors Officers Qtrs	2
	Lituya						Re-Route Waste Oil Piping	2
1-40		46,400.5 Install larger drain pans with larger diameter piping with a propper slope with	46,400.5	13.0	46,400.5	13.00		
	Lituya	house to view fore deck.					CCTV System	2
1-40		Install new camera and weather proof heated housing on front of Foc'sle	46,387.5	20.0	46,387.5	20.00	Ċ	
	LeConte	:					Weathertight Door	2
1-40		46,367.5 Many of the weather tight doors are deteriorating. There are 7 on the vessel that are showing rust. Renew the door and jambs with new SS weld in type	46,367.5	42.0	46,367.5	42.00		
1-40	LeConte		46,325.5	75.0	46,325.5	75.00	Vehicle Space	2
	LeConte	Sewage tanks should be sand blasted and painted in place of the annual patch repair work that has been done over the past few years.					V1 & V2 Sewage Tanks	2
1-40			46,250.5	22.0	46,250.5	22,00		
1-40	LeConte	Replace rusted tiles. Fix deck drain & repair steel.	46,228.5	1.5	46,228.5	1.50	Unisex Head	2
	LeConte						Steam	2
-			70,227.0		40,227.0			
1-40	(0.0)	te pining is in fair condition. Traps, control valves.	70.000	100	<u>`</u>	10.00		110115
District	(Citv)	Project Description	(\$000)	(\$000)		(\$000)	v Project Title	Priority
Election	Location		Total	Cost	Tota			Dent
			Running	of F	Running	Project		

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No. 10 Void (Centerline)	No 10 Sthd Wing Void	No. 10 Port Wing Void	Move E-Gen Voltage Regulator	Men's Toilet/Shower in the Solarium	Men's Head (Fwd)	Main Engine Room Supply System		Main Engine Cooling Pumps	Lifeboat Davits		Hanging Lifejacket Storage Boxes	I O Mai a Observation Louige	Coward Observation Output	Forecastle Deck	Fan Room No. 2	Cooling Piping	Condensate Piping		Compressed Air Receivers	Clean Stack, Crankcase Exhaust Fan & Motor	Calpet	Bridge Wing Controls	Bar	Anchor Chain	Aft Capstan	Accommodation Space Ventilation Systems		AC Compressors		Compartment	1JV Circuit Between Wheelhouse & BT	Womens Head Aff	Women's Hood	Wheelchair Access	Verlicie Deck	Voticle Dook	Vehicle Deck		Priority Project Title		
15.00	15.00	20.00	1	6.00	10.00		30.00	20.00		10.00		4 00	45.00	8.00	4.00	00.67		90.00	100.00	20.00	30.00	2.00	3.00	22.00	3.00		170.00		5.00		15.00	3	25.00		25.00	20.00	.,	15.00	(\$000)	Cost	Project
49,627.5	49 612 5	49,597.5		49,571.5	49,527.5		49,517.5	49,487.5		49,467.5	40,407.0	10 157 F	49,453.5	49,408.5	49,400.5	49,390.5	1	49,321.5	49,231.5	49,131.5	49,111.5	49,096.5	49,094.5	49,091.5	49,069.5		49,066.5		48,896.5	0	48 891 5	10 076 E	48,864.5		48.839.5	48,814.5		48,794.5	(\$000)	Total	Running
15.0	15.0	20.0		6.0	10.0		30.0	20.0		10.0		<u>,</u>	45.0	8.0	4.0	/5.0	1 0	90.0	100.0	20.0	30.0	2.0	3.0	22.0	3.0		170.0		5.0		15.0	300	25.0		25.0	20.0		15.0	(\$000)	Cost	GF
49,627.5 Blast and recoat the lower sections of this tank.	49 612 5. Blast and recoat the lower sections of this tank	49,597.5: Blast and recoat the lower sections and the att bulkhead of this tank.	Gen to switchboard and connect to regulator.	49,577.5. Remount regulator in the Switchboard, add multiple connector wire from E-	49,527.5: A new poured floor should be installed in this head.	The MMR air s	49,517.5	49,487.5 The seawater cooling pumps should be rebuilt/overhauled by 2010.	equipment.	49,467.5. Prep and paint the areas of corrosion on the lifeboat davits and associated	and damage to the lifejackets.	40 AS7 5. Install lower wents of the aft section of the hoves to reduce condensation	49,453.5; Leaks in the overnead and window should be repaired immediately. An		49,400.5 Fix the forward bulkhead penetration and replace insulation.	be replaced with Cu-Ni and the pipe size increased.	insulation is suspected to be ACM and should be removed and replaced.	49,321.5: The boiler condensate piping should be replaced. The existing piping	-	motor, reinstall and test.	49,111.3: Illistall new carpet in the bridge, university dualities and passageway.	49,096.5: Replace plexiglass control covers and equipment consoles.	49,094.5 Repair drain pipe that has been patched.	49,091.5 Range, gauge, sandblast and paint. Include shot marks.	49,069.5 Replace foundation bolts.	for the cabins. Potable quality steam humidifiers should be added to the system.	49,066.5. The crew and passenger spaces accommodation systems should be		48,896.5. A new compressor oil needs to be found that properly lubricates the	and headset fo	48 891 5: Pull new cable between Wheelhouse to B/T Compartment, Install cabling	40 078 F. Doured flooring should be installed in this space to replace tile	48,864.5 Deck has soft spot, suspect wasted steel under deck coatings. Remove	Ē	48.839.5:	a post to the professor or post, veloce installed at postpore	Modernize the refrigeration van receptacles with supportable equipment.	5	(\$000) Project Description	Total	Running
Matanuska	Matanuska	Matanuska	Matanuska	Matanuska	Matanuska	Matanuska		Matanuska	Matanuska		Matanuska	IAICUS ICONO	Matanijeka	Matanuska	Matanuska	Matanuska	Matanuska		Matanuska	Matanuska	IVIALAI IUSNA	Matanuska	Matanuska	Matanuska	Matanuska	Matanuska		Matanuska		Matanuska		Malaspina	Malacnina	Malaspina	ivididspilla	Molospino	Malaspina		(City)	Location	
1-40	1-40	1-40		1-40	1-40		1-40	1-40		1-40	-	1-40	1-40	1-40	1-40	-4-6		1-40	1-40	-+	1 40	1-40	1-40	1-40	1-40		1-40		1-40		1-40	1_40	1-40		1-40	1-40		1-40	District	Election	

7) N	5	N	N	N		N		N)	N	N	٦	<u>.</u>	Тh		2		N	N	N		N	N		2		N		N	Ν	N	3	N	2	N	N	2	Priorit	Dept.	
bow i riruster Machinery Space	Boiler Condensate Lank		Battery Locker	After Lounge	Accommodation Spaces		Women's Head (Aft)		Women's Shower		Women's CG Locker	Wheelhouse Heated Windows	THE INCOME CASE AND INCOME	Wheelhouse Window	Transfer Pump		Steam Piping		Stairwell	Speed Log Transducer	Sanitary Pumps		Recreation Room	Recliner Lounge		Purser's Office		Placards		Passageway (Fwd Steward Qtrs)	Passageway (Aft-Steward Otrs)	Officers wess & Crew wess	Officer Moon & Cross Moon	No.11 Port Wing Void	No. 4 DB FW Ballast (Stbd)	No. 4 DB FW Ballast (Port)	2 DB Ballast	No. 11 Stbd Wing Void	Priority Project Title	•	
8.00		16.00	4.00	40.00		30.00		12.00		18.00	4.00	1	21 00	4.00		26.00		60.00	5.00	18.00		14 00	12.00		35.00		18.00		3.00	15.00	10.00	1 00	6.00	18.00	30.00	30.00	28.00	12.00	(\$000)	Cost	Project
50,129.5	1	50,121.5	50.105.5	50,101.5		50,061.5		50,031.5		50,019.5	50,001.5	10,007.0	49 997 5	49,9/6.5		49,972.5	i	49,946.5	49,886.5	49,881.5	10,000.0	49 863 5	49,849.5		49,837.5		49,802.5		49,784.5	49,781.5	49,700.5	10 700 5	49,751.5	49,745.5	49,727.5	49,697.5	49,667.5	49,639.5	(\$000)	Total	Running
8.0)	16.0	4.0	40.0		30.0		12.0		18.0	4.0	7	y 0	4.0		26.0		60.0	5.0	18.0		140	12.0		35.0		18.0		3.0	15.0	10.0	100	6.0	18.0	30.0	30.0	28.0	12.0	(\$000)	Cost	GF
50, 129.5; Repair burn marks in the overnead. Henew deck coating.	prevent corrosion.	50,121.5 Replace with new tank which would have an epoxy coating on the inside to	50.105.5 The deck should be cleaned and repainted.		Install new electric humidifiers throughout the ships ventilation system.		possible failure of the deck plate, and the sinks should be replaced.	50,031.5	coatings.	50,019.5 Shower surrounds showing signs of rust, renew surronds and repair deck	50,001.5 Prep and paint this space.	the center one works marginal.	49 997 5 Replace the three heated windows, controls and power supplies since only	49,976.5 The portside window has poped out of the frame and is secured in place till	fuel transfer times. Larger pumps and piping should be installed.	49,972.5		49,946.5 There are remaining sections of the original steam piping that should be	49,886.5. Paint stairwell, and renew signage.	49,881.5 Speed Log is very old and hard to have serviced, renew with a more modern unit.	double seal pun	49 863 5 Existing numbs were rebuild 3 years ago, should be replaced with bronze	49,849.5 The deck covering should be replaced. The bulkheads should be painted.	should be repaired as soon as possible to prevent deterioration of the deck.			49,802.5 Replace carpet. Install bulkhead cabinet at fwd bulkhead. Install under und	=	49,784.5	49,781.5 The space should be refurbished. Decking, bulkheads and overheads are old.	9) (00.3) The space should be foldible lead. Devaily, buildineds and overhoods and	The appropriate the refusion of Dockson bulkboods and controver ore	49,751.5 Replace the officers quarters (water cooled) A/C unit with a new air cooled	49,745.5 Recoating of this tank is recommended.	49,727.5 Recoating of this tank is recommended.	49,697.5 Recoating of this tank is recommended.	49,667.5 Recoating of this tank is recommended.	5	(\$000) Project Description	Total	Running
laku	Taku	1	Taku	Taku	Taku		Matanuska		Matanuska	•	Matanuska	Matanuska	Medicalia	Mataniska	Matanuska		Matanuska		Matanuska	Matanuska	Matanuska		Matanuska	Matanuska		Matanuska		Matanuska		Matanuska	Matanuska	Maidiluska		Matanuska	Matanuska	Matanuska	Matanuska	Matanuska	(City)	Location	
1-40		1-40	1-40	1-40		1-40		1-40		1-40	1-40	-	1-40	1-40		1-40		1-40	1-40	1-40	- 4	1-40	1-40		1-40		1-40		1-40	1-40		1	1-40	1-40	1-40	1-40	1-40	1-40	District	Election	

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Shaft Alley	Scullery	Recreation Room		Passenger Staterooms	No. 4 Wing Void (Fr. 131-145)	No. 3 Void (Fr. 47-61)	No 4 Fresh Water TankStarboard	No 4 Fresh Water TankPort	No 4 Double Bottom Ballast TankStarboard		No 4 Double Bottom Ballast TankPort	Mooring Compartment (Port & Stbd)	TOTAL CHOCK CHOCK COLORED	Mens Toilet/Shower CG Locker	Mens I diletrollower	Werls I oller/Shower	Man Toilet Chouse	Men's T/S Shower & Dressing Room Area		Mens Head (Fwd)	Main Machinery Room Ventilation	Fuel Oil Purifier		FRB Davit	Forward Observation Lounge		Foredeck / Ladderway	Forecastle	Firemain Piping		Fire Alarm Label Plates	Exterior Deck	Exterior Deck, Cabin Deck		Exterior Deck, Upper Deck	Engine Room Bilges	Electrical Power Distribution		Elevator Controls	•	Project Title		
6.00	7.00	ſ	10.00	4.00	18.00	18.00	36.00	36.00		28.00	28.00		52 00	15.00	9.00	8	12.00	;	14.00	10.00	22.00	ſ	225.00	35.00	4.00	40 00	14.00	30.00		200.00	3.00	18.00	.,	30.00	65.00	20.00		150.00		28.00	(\$000)	_	Project
51,316.5	51,310.5		51,303.5	51,293.5	51.289.5	51,271.5	51,253.5	51,217.5		51,181.5	51,153.5		51 125 5	01,073.0	51,058.5	2000	51,049.5		51,037.5	51,023.5	51,013.5		50,991.5	50,766.5	00,70	50 731 5	50,691.5	50,677.5	30	50.647.5	50,444.5	50,440.5		50,422.5	50.392.5	50 307 F		50,307.5		50,157.5	(\$000)	Total	Running
6.0	7.0		10.0	4.0	18.0	18.0	36.0	36.0		28.0	28.0		500	0.0	9.0		12.0		14.0	10.0	22.0		225.0	35.0	40.0	400	14.0	30.0		200.0	3.0	18.0		30.0	65.0	20.0		150.0		28.0	(\$000)	Cost	GF
51,316.5 Areas with coating failures should be repaired.	51,310.5 Replace broken window frame in scullery, water is leaking in this space.	The forward and aft recreation rooms should be completely refurbished; carpet and appropriate underlayment and padding should be installed.	51,303.5	51,293.5 Renew lifesaving placards.	51.289.5: Prep and paint as required.	51,271.5 Prep and paint as required.	51,253.5: Prep and paint as required.	51,217.5 Prep and paint as required.	Prep and paint as required.	51,181.5	51,153.5 Prep and paint as required.	ordinary steel foundation bolts with stainless-steel.	51 125.5. Renew coatings as required to protect the exterior of the space. Replace all	51,073.3 helpain builtiliead attai leptace deck covering. The prace table prace of the	51,000.5: The latter deck covering should be replaced.	and in poor condition.	51,049.5: The Cabin Deck Men's Tollet/Shower should be returbished as it is very old	a deck coating rather than tile.	51,037.5 Remove existing tile and check integrity of the steel underneath. Renew with	51,023.5 Repair leaks in piping behind joinery work and recoat the deck.	51,013.5 The ventilation supply and exhaust ductwork should be fitted with silencers.	The average economic life of a purifier is 15-20 years, which it has reached.	50,991.5	50,766.5 Renew coatings and davit components as required.	corrosion that has occurred to the bulkhead, repair and paint.	50 731 5 Reseal the windows. Remove joiner panel to determine the extent of	50,691.5 Remove doubler plate, crop out wasted steel and renew steel plate as required.	50,677.5 Renew coatings.	patched. Recommend replacement with 90:10 CuNi piping.	50.647.5 Current piping is steel and carries salt water, many areas have been	50,444.5 Hecoat the deck. 50.447.5 Update signage to match current alarm type.	50,440.5 Add deck drains in areas of standing water.	Renew coatings as required to protect the exterior of the Cabin Deck.		50,392.5. Correct areas with coating failure.	50 327 5 Clean bilines and recoat as requilired.	The eleven NA1B power panels should be replaced. The circuit breakers are no longer available and it will be necessary to replace the entire panel.	50,307.5	should be updated.	.5 The 1980 elev	(\$000) Project Description	Total	Running
Taku	Taku	Taku		Taku	Таки	Taku	Taku	Taku	Taku		Taku	Taku		Takıı	anu	Tolar		Taku		Taku	. Taku	l. Taku		Taku	Taku		Taku	Taku	Taku		Taku	Taku	Taku -		Taku	Taku	Taku		Taku		(City)	Location	
1-40	1-40		1-40	1-40	1-40	1-40	1-40	1-40		1-40	1-40		1-40	-	1-40	•	1-40		1-40	1-40	1-40		1-40	1-40		1-40	1-40	1-40		1-40	1-40	1-40		1-40	1-40	1-40		1-40		1-40	District	Election	

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Officers Mess		Ohservation I or inde	Navigation Antenna Foundations	MSD System		MSD Room	THOUSE CONTRACTOR	Mens Forward Head	Machinery Casing	Life Boats	Focsle Open Deck	Fin Stabilizer Compartment	Fan Room	Exterior Doors	30	Electrical Cabling	Doppler Log	Cooling Pumps	Collision Damage Hepair	Cocktail Lounge	Bridge Wings (P/S)		Bow Thruster Room	Bosun's Stores		Anchor Windlass	Womens Head (Fwd)	Void (1-35-0)	Vehicle Space Ventilation	Venicie Space		Vehicle Space		Upper Void (Fr. 47-61)	Top of Mooring Compartments (Port & Stbd)	77	Tonnage Opening (Fr. 127-130 Stbd)	Steering Repeater	Signage		Ship Service Switchboard		rioject line		
	9.00	18.00	15.00	· :	200.00	1.00	14 00	1200	10.00	20.00	20.00	8.00	6.00		125.00	150.00	18.00	22.00	14.00	16.00		30.00	5.00		11.00	12.00	5.00	1.00	35.00	3	14.00		86.00	5.00		16.00	900	20.00	8	10.00		85.00	(4000)	Cost	Project
,	52,337.5	7 80E CZ	52,310.5		52,295.5	02,000.0	52,001.5	52 081 5	52.069.5	52,059.5	52,039.5	52,019.5	52,011.5		52,005.5	51,880.5	51,730.5	01,712.0	51,690.5	51,676.5		51,660.5	51,630.5		51,625.5	51,614.5	51,602.5	51,597.5	51,596.5	T 1000 I	51,561.5		51,547.5	51,461.5		51,456.5	51 440 5	51,431.5		51,411.5		51,401.5	(9000)	Total	Running
	9.0	180	15.0		200.0	1.5	14.0	100	10.0	20.0	20.0	8.0	6.0		125.0	150.0	18.0	72.0	14.0	16.0		30.0	5.0		11.0	12.0	5.0	1.0	35. U	2	14.0		86.0	5.0		16.0	9.0	20.0	3	10.0		85.0	(000)	Cost	GF
new compressors making sure there is a good seal.		52 328 5 Respail leaking windows as required	52,310.5 Replace rusting antenna roundations on the House Top & paint air foundations.	One of the AMHS Fleet MSD Upgrade project.	52,295.5 Perform upgrades on Tustumena similar to those being proposed for Step	should be installed.		52 081.5 Repair deck drain. stalls & fix bulkhead		52,059.5 Overhaul the lifeboat engines.	52,039.5 The areas of corrosion prepped and painted.	52,019.5: Areas with coating failures should be repaired.	52,011.5 Repair insulation and repaint deck as required.	replacement du	52,005.5 Replace all the exterior doors due to corrosion. Work will include steel deck	51,880.5 The original exterior cabling on the ship should be replaced with new cabling. All cable should be insulation-resistance checked.	51,730.5 Install a Doppler Log to interact with the Stabilizer Fins.	be replaced.	51,690.5 Insert gunwale where dented, and paint effected areas.	Repair or repla	wings. Henew cable ties underneath railings.	51,660.5. Prep & paint areas with active corrosion around the port & starboard bridge	51,630.5 Areas with coating failures should be repaired.	corrosion.	51,625.5 Surfaces with loss of coating should be prepped and painted to help deter	51,614.5 Replace motor controllers on the anchor windlass	Fix plumbing is	51,597.5. Open tank and inspect during next available drydock period.	51,596.5 The system should be incloudiny hispected and concoded sections renewed.		51,561.5 Some of the vehicle space drain do not function properly due to their	maintenance and protects the steel deck.	51,547.5 Remove old coatings by track blast and apply zinc which is less	51,461.5 Mechanical spot paint repair needed.	Renew coatings as required. Repair insulation.	51,456.5	51 440.5 Renew coatings as required. Repair insulation.	51,431.5; ilistali a stedility repeatel ili tre stedility todili wilicii wodo od used udility emergencies.	COTTECT.	51,411.5 Update signage throughout the ships passenger area to be uniform and	may have to be done.	51,401.5. Ine did type ML breakers are no longer supported by the manufacturer and should be replaced as required with the FA or KA type. Some bus work	Floject Des	_	Running
Tustumena		Tustumena	Tustumena	Tustumena	Step	Tustumena		Tustumena	Tustumena	Tustumena	Tustumena	Tustumena	Tustumena			Tustumena	Tustumena	Tustumena	hould	Lustumena	lustumena		Tustumena		:	Tustumena	Taku	Taku	Taku	- aku	T-L	Taku		Taku	Taku		Taku	Taku	i divid		Taku	er and ork	(City)	Location	
	1-40	1-40	1-40	5	1-40	į	1-40	1-40	1-40	1-40	1-40	1-40	1-40		1-40	1-40	1-40	1	1-40	1-40	5	1-40	1-40		1-40	1-40	1-40	1 -40	1-40	30	1-40		1-40	1-40		1-40	1-40	-+	4 40	1-40		1-40		District	

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Women's Forward Head	Wheelhouse	Iransformers	1	Steering Gear Compartment	Stairs, Exterior	Solarium		Side Lounge & Vending Area		Shaft Alley	Service Boat Crane	Radar Mast	Pursers Station		Purser's Office		Public Shower (Port side)	Passenger Cabins		Open Deck, Exterior	Open Deck, Exterior		Open Deck, Exterior		Open Deck Aft of Solarium	Open Deck	Priority Project Title		
10.00	5.00	1	20.00	6.00	6.00		200.00		18.00	5.00	6.00	15.00		15.00		22.00	4.00		24.00	2.00		12.00		20.00	15.00	80.00	(\$000)	Cost	Project
52,822.5	52,812.5		52,807.5	52,787.5	52,781.5		52,775.5		52,575.5	52,557.5	52,552.5	52,546.5		52,531.5		52,516.5	52,494.5		52,490.5	52,466.5		52,464.5		52,452.5	52,432.5	52,417.5	(\$000)	Total	Running
10.0	5.0	1	20.0	6.0	6.0		200.0		18.0	5.0	6.0	15.0		15.0		22.0	4.0		24.0	2.0		12.0		20.0	15.0	0.08	(\$000)	Cost	GF
52,822.5	52,812.5		52,807.5	52,787.5	52,781.5		52,775.5		52,575.5	52,557.5	52,552.5	52,546.5		52,531.5		52,516.5	52,494.5		52,490.5	52,466.5		52,464.5		52,452.5	52,432.5	52,417.5	(\$000)	Total	Running
52,822.5 Aft bulkhead has rust bleeding out of the walls, remove joinery panel, fix leak and reinstall joinery panels.	wheelhouse is old and has several unused noies, renew ceiling	voltages.	52,807.5 Transformers are very old, new transformers should be installed with lower	ds to be cleaned and painted.		replaced. Solarium should be painted.	52,775.5 Solarium heaters need to be replaced. Solarium windows need to be	Rubber floor tile needs to be renewed, and benches recovered with vinyl.		52,557.5 Spot paint repair needed.	ine.	52,546.5 Prep and paint radar mast to stop corrosion.	from falling off.	52,531.5 Replace shelves with a better sea going pan type shelf to prevent items	more space for both the office and the stateroom.	52,516.5. The Chief Purser has some ideas on moving a joinery bulkhead to provide		should be renewed.	52,490.5 There are 4 passenger cabin bathrooms that have cracked bulkheads that	of protection.	renew coatings. Coatings on railings need spot repair.	52,464.5 Install a stop to prevent the gates & railings from striking each other and		52,452.5: Replace brass drain covers as required to prevent foreign objects from sentering the drain pines. Add deck drains to eliminate standing water.		52,417.5 Weather decks should be blasted and recoated.	Project Description		
Tustumena	Tustumena	lustumena		Tustumena	Tustumena	Tustumena		Tustumena		Tustumena	Tustumena	Tustumena	Tustumena		Tustumena		Tustumena	Tustumena		Tustumena	Tustumena		Tustumena		Tustumena	Tustumena	(City)	Location	
1-40	1-40	5	1-40	1-40	1-40		1-40		1-40	1-40	1-40	1-40		1-40		1-40	1-40		1-40	1-40		1-40		1-40	1-40	1-40	District	Election	