

5/12 - Meeting w/ Nainoa - to go over work schedule

Called Art Mersereau re: pick up of lakos.

Keeki is cleared for storage of lakos. talked with Amy. Store near shed. Told Art to hold off calling Leon to p-u lakos until after Board meeting.

5/13 Called Steve - yes

Left messages at Buddy, David, Gordon

Mailed letters out to: Harry, Buddy,

Guy, Art M., Nainoa, Wally,

Chuck, Ant, Mike, Steve Albert,

Gordon, Kimo, David.

Nainoa - a) spoke to Leon

b) Will not give itemized list until cause fixed

c) brought materials, stored at KS, new station

d) Nainoa needs that Leon work - unless and says no.

RWD

COPY

ROBERT W. DICKIESON, INC.
MARINE SURVEYING

Report No. 647-81

25 June 1981

This is the report of the survey conducted by the undersign at the request of Mr. MIKE TONGG and on behalf of the POLYNESIAN VOYAGE SOCIETY, owners, on board the

HAWAIIAN DOUBLE HULL SAILING CANOE

HOKULE'A
Official No. 571789

for the purpose of ascertaining her condition for insurance purposes only.

ATTACHMENTS, forming parts of this report.

Appendix (A) - Equipment Details of Boat Survey.
Appendix (B) - Photographs taken on 19 June 1981.

IN ATTENDANCE

Mr. Wallace Froiseth, Society Member

DESCRIPTION

The "HOKULE'A" is 60 ft (LOA) HAWAIIAN DOUBLE HULL SAILING CANOE alleged to have been built in 1974 by CSK CATAMARANS of HONOLULU, HAWAII. She is designed to duplicate the ancient POLYNESIAN MULTI-HULL SAILING CANOE and has been designated an experimental and research vessel by her owners THE POLYNESIAN VOYAGE SOCIETY. The vessel is ketch rigged and steered by three (3) individually manned sweeps. There are no creature comforts or living accommodations aboard the vessel. Shelters rigged on her platform deck offer limited crew protection.

The "HOKULE'A" is constructed of wood. Her twin hulls are double diagonal mahogany ply laid over 3/4" x 4" sawn frames spaced 36 inches at centers and twelve 3/4" X 1 1/4" longitudinal stiffeners equally spaced from the keelson to the sheer. The exterior hull surface is fiber-glassed covered. All fasteners used on the framing appear to be of bronze and galvanized steel. Ten (10) laminated arched beams fitted and lashed to each hull provide the primary structural support of the vessel. The main beams are constructed of ten (10) 1/2" X 5" oak planks alleged to have been cold bent and laminated together with resin. The lashing used are mainly of 5/16" Dia. dacron line that has been skillfully laid for maximum effectiveness. Main beams number 1 and 2 and beams number 6 and 7 are closely laid together to support the main and mizzen mast which is stepped on the platform deck above. The platform deck which extend between hulls consist of fore and aft planking supported by beams lashed to the main arched beams. The life rails are of HAU wood fitted and lashed into place. Safety nets are rigged fore and aft of the platform deck.

For a profile view of the vessel's exterior, refer to photographs A, B, and C, furnished in Appendix (B) to this report. The vessel's main and mizzen masts were unstepped and are not shown in the photographs.

"HOKULE'A's" masts and spars are made of SITKA and SPRUCE WOODS. Her booms are of HAU and FIR. All standing and running rigging are of 5/8" X 3/4" Dia stranded nylon line. There are no chain plates, turn-buckles, winches or other modern conventional sailing hardware aboard the vessel. Masts shrouds are made fast to the arched main beams that

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Telephone (808) 523-3001/Telex RCA 723-8305 DAVS HR/ITT 743-0018 STEAM

THIS REPORT IS ISSUED SUBJECT TO THE CONDITION THAT IT IS UNDERSTOOD AND AGREED THAT NEITHER THE OFFICE NOR ANY SURVEYOR OR ANY EMPLOYEE THEREOF IS UNDER ANY CIRCUMSTANCES WHATSOEVER TO BE HELD RESPONSIBLE IN ANY WAY FOR ANY ERROR IN JUDGMENT, OR FAULT OR NEGLIGENCE NOR FOR ANY INACCURACY, OMISSION, MISREPRESENTATION OR MISSTATEMENT IN THIS REPORT, AND THAT THE USE OF THIS REPORT SHALL BE CONSTRUED TO BE AN ACCEPTANCE OF THE FOREGOING CONDITIONS

Page 2...

extend outboard of the hull sides. Her sails are unique in shape and are referred to as the CRAB CLAW design. For auxiliary power, the vessel is equipped with a long shaft outboard motor rated at 40 HP and a six (6) gallon portable gas tank. The outboard motor controls and mounting bracket are located on the port after section of the platform deck.

The interior arrangement of "HOKULE'A's" twin hulls are identical. There are seven (7) watertight compartments in each hull. Each compartment is fitted with an 8" high coamed hatch, double gasketed. Inflatable tubes are located in the fore and aft compartments. Each fore and aft compartment is equipped with a permanently mounted manual bilge pump located topside forward of the compartment hatches. Three (3) portable manual pumps are available to dewater the remaining compartments if necessary. There is no wiring or plumbing throughout the vessel. The compartments are used for storage and are separated by plywood transverse bulkheads.

The battery operated communication equipment is kept in a specially designed portable box. The vessel is well equipped with safety equipment.

EXAMINATION

On the 19th day of June 1981 and subsequently, the undersigned proceeded to AMFAC MARINE DRYDOCK, HONOLULU, HAWAII where the vessel lay drydocked resting on keel blocks.

The main and mizzen masts were unstepped, all standing and running rigging removed.

The following were found and recommendations made.

- ✓ 1. On both hulls, portions of the keel worm shoe are missing and infested with marine borers. Recommend repair.
- ✓ 2. The hose clamps on the permanently mounted bilge pumps are corroded. Recommend cleaning or replacement if necessary.
3. On the port hull, the waist plank on the port bow is cracked. The crack extends aft to the 3rd hatch. Recommend repair.
- ✓ 4. On the port hull, the number three (3) lower hatch gasket is deteriorated. Recommend replacement.
- ✓ 5. On the port hull, the forward bilge pump is operating very stiff. Recommend pump be cleaned and lubricated.
- ✓ 6. The bilge pump discharge hoses on deck are worn and damaged. Recommend replacement.
7. There is evidence of some hull movement forward. The double main beams (nos. 1 and 2) have been reenforced with cross tension shrouds leading from the 3rd main beam and by adding a dolphin striker. The repairs are temporary and according to Mr. FROISETH the beams will be replaced in the near future.
8. On all ten (10) laminated oak beams delamination has occurred as shown in photographs (D) and (E) furnished in Appendix (B) to this report. On two (2) beams separation measured 3/16". The main beams are critical to the vessel's structural integrity. Recommend replacement in near future in conjunction with item number 7 above.

ITEMS: 1, 2, 4, 5, 6 WERE REPAIRED ON JUNE 20, 1981
By PAOA C.C.C. & V.S.

Page 3...

OPINION

The "HOKULE'A" is a uniquely constructed vessel in a class of her own. After modifications to increase her watertight integrity she has proven herself a capable ocean voyager by successfully completing a series of Inter-Island and two (2) voyages to TAHITI. More than other vessel's, she will require constant maintenance and renewals to maintain her structural integrity.

In the opinion of the undersigned the HAWAIIAN DOUBLE HULL SAILING CANOE "HOKULE'A" is considered a satisfactory insurance risk for ocean sailing when items numbers 2,3,5,7, and 8 are dealt with.

The vessel is considered a satisfactory risk for PORT RISK insurance when items numbers 2 and 5 are dealt with.

Survey conducted and report submitted without prejudice.


Dan Ing

RWD

ROBERT W. DICKIESON, INC.
MARINE SURVEYING

Appendix (A) to:

Vessel HOKULE'A

Report No. 647-81

EQUIPMENT DETAILS OF BOAT SURVEY

Date: 19 June 1981 Registration No.: N/A
 Owner: POLYNESIAN VOYAGE SOCIETY Official No.: 571789
 Address: 169 S. Kukui Street Location Official No. displayed: _____
Honolulu, Hawaii 96813 No.6 Compartment-Port Hull
 Trade: Experimental & Research Port of Registry: Honolulu, Hawaii
 Certified for N/A passenger Builder: CSK Catamarans
N/A crew Place of Build: Honolulu, Hawaii
 Type licenses: N/A Date of Build: 1974
LEON A.P. STERLING Dimensions:
 Master: Mr. Leon Sterling (Length): 60 ft
 Tonnage: 7 (GROSS) (Net) (Breadth): 17 ft 6 in.
 Location of Vessel: pier 12 (Draft): 2 ft 4 in.
Honolulu Harbor, Honolulu, Hawaii Replacement Cost: \$ 195,000.00
 Market Value: \$ 105,000.00
 Make and Model: Custom Built Ancient Vessel examined:
Hawaiian Double Hull Canoe In the water: _____
 Hauled out: 19 June 1981

Engines

Single See Page 2, Outboard Motor No. of Carburetors: _____
 Twin _____ Backfire Protection? _____
 Make: _____ (FLAME ARRESTORS)
 Model: _____ HP Auxiliary Engine: _____
 Serial No. _____ Make _____
 Location: _____ Fuel _____
 Location _____
 Fuel: Gasoline Diesel Location _____
 No. of Tanks _____ Electric Wiring: _____
 Total Capacity _____ Proper support and Protection? _____
 Material _____ Protected by circuit breakers? _____
 Location _____ Fuses? Grounded? _____
 Proper Ventilation & Fill Systems Condition _____
 Leaks? _____ Batteries: No. _____ Volt _____ VDC
 Anti Syphon Protection? _____ Make _____
 Exhaust: Wet Dry Secured in position? _____
 Clear of Woodwork? _____ Ungrounded terminal protected? _____
 Location _____ "Discharge of Oil Prohibited" place-
 Cooling: Salt Water card posted (vessel's 26' or over) _____
 Heat exchanger _____ Propeller: _____ No. _____
 Was Engine Tested by Running _____ Diameter _____ Pitch _____
 Engine Operated Satisfactorily _____ No. of blades _____ Material _____

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ROBERT W. DICKIESON, INC.
MARINE SURVEYINGAppendix (A) to:
vessel HOKULE'A

Report No. 647-81

(Engines Con't)

Shaft: Diameter ----- Outboard Motor? Yes-Long Shaft
Material ----- Make JOHNSON Model 40R1-75 C
Stuffing Box Leaking ----- Ser. No. J4252218 Condition GOOD
Reduction/reverse Gear make ----- Sterndrive:
ratio ----- Make ----- Model -----
Engine Hour Meter Reading: ----- Serial No. -----
Additional Equipment: 1) Portable 6 gallon fuel tank. 2) Outboard motor mounting bracket.

Double diagonal Hull
laid plywood
Material: (hull) fiberglass covered. Fenders? None No. -----
(frames) 3/4" x 4" sawn Steering: (type) Sweep Oar 3
(spacing) 36" at centers Tested Satisfactorily? yes
Last drydocking: Kingpost? ----- Cleat? -----
(date) June 1981 Galley: (location) None
(place) AMFAC MARINE Stove? ----- (type) -----
Bilge Pumps: (fuel) -----
(no.) 4 (type) Installed, Manual Fuel in Safe Location? -----
(no.) 3 (type) Portable Manual ^{30 GPM} Refrigerator? None
Tested Satisfactorily? Yes Hot Water? None
Bilge: Dry? No-Slight amount Fresh Water Tanks: None
Clean? Yes (no.) 30 (location) -----
Fuel in Bilges? No (total capacity) ----- 150 GAL
Anchors: (material) ----- PLASTIC
Viking Model #50 Vessel Well Maintained? Fair
(no.) 2 (type) Danforth (wt) ----- Head? None (type) -----
(no.) 1 (type) Danforth (wt) 25 (permanent) ----- (portable) -----
Anchor WIndglass? None Condition of Deck Covering -----
Manual? ----- Electric? ----- GOOD
Anchor Chain: Hose Clamps Tight? Yes
Size: (primary) 3/8" Dia Through Hull Fittings Below Waterline
(secondary) 3/8" Dia Equipped With Sea Valves? N/A
Length: (primary) 8 ft Mooring Lines: Fuji Set
(secondary) ----- (condition) Good
Rode: Ventilation:
Size: (primary) 5/8" Dia Nylon (engine compartment) N/A
(secondary) --- stranded (fuel compartment) N/A
Length: (primary) 300 ft (est.) (living areas) N/A
(secondary) 300 ft (est.)

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ROBERT W. DICKIESON, INC.
MARINE SURVEYING

Appendix (A) to:

Vessel HOKULE'A

Report No. 647-81

(Hull Con't)

Sea Valves Operate Freely? N/A

Additional Equipment: _____

Sails

Number 2 Type of Rig: Ketch
Type Main Material Canvas Standing Rigging:
Age 18 mos. Condition Good (material) Stranded Nylon line
Type Mizzen Material Canvas (age) unk (size) 5/8" & 3/4" Dia
Age 18 mos. Condition Good (condition) Fair
Type _____ Material _____ Running Rigging:
Age _____ Condition _____ (material) Same as above
Type _____ Material _____ (age) unk
Age _____ Condition _____ (condition) Fair
Inspected: In Bags? Furled? X Swages? None
Spread Out? _____ (condition) -----
Winches: (no.) None Spars: (types) Mast & spars of Sitka
(make) _____ Spruce-Booms of Hau & Fir.
Chain Plates Tight? None (material) WOOD

Fire Extinguishers

No. 2 Type Drychemcial Wt. 5 Test Guage Shows Charged? -----
No. _____ Type _____ Wt. _____ When Last Serviced? -----
Fixed System Installed? No

Navigation Equipment

Radio? VHF (type) VHF Pace Barometer? None
CB _____ (make) ----- (model) -----
OTHER _____ (serial no.) -----
Serial No. VHF Running Lights: portable Lanterns
CB _____ (electric) X (oil) _____
OTHER _____ Tested Satisfactorily? **
Call Sign VHF WYB 8064 Compass? None (size) ----
CB _____ (make) ----- (model) -----
OTHER _____ (serial no.) -----
Tested Satisfactorily? VHF yes Rules of the Road? None 1/5
CB _____ OTHER _____ Charts? None 1/5 Bell? None

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**Not on board at time of survey.
(alleged)

RWD

ROBERT W. DICKIESON, INC.
MARINE SURVEYING

Appendix (A) to:

Vessel HOKULE'A

Report No. 647-81

(Navigation Equipment Con't)

Antenna? VHF x CB _____ OTHER _____

Horn? YES Whistle? _____

Auto Pilot? None

(make) _____ (model) _____

(serial no.) _____

RDF? None

(make) _____ (model) _____

(serial no.) _____

Depth Recorder? None

(make) _____ (model) _____

(serial no.) _____

Radar? None

(make) _____ (model) _____

(serial no.) _____

Seachlight? Hand light 2

(mounted) _____ (portable) X

Clock? None (make) _____

(model) _____

(serial no.) _____

Additional Equipment _____

1) Hand held portable VHF transceiver.

2) Battery pack for VHF transceiver.

Safety Equipment

Dinghy? No (condition) _____

(make) _____ (length) _____

(material) _____

Raft? No (condition) _____

(make) _____

(no. of persons) _____

*Life Ring? Two with strobe light.

*Man Overboard pole with Flag? Two

U.S. Coast Guard Courtesy Motorboat

Examination? N/A Yr. of Decal _____

Manufacturer Certification of Com-

pliance Label N/A Capacity Label N/A

Personal Floatation Devices (PFD):

(no. of Adults) 14 (type) II

(no. of Children) 0 (type) _____

EPIRB Two Class A and B

Radar Reflector? Yes

* Pyrotechnics? Yes Date of Mfg 1980

First Aid Kit? Yes

Additional Equipment _____

Manoverboard strobe light each 6 **

**Not on board at time of survey

Theft problem _____

Hull Color: BROWN Deck Color: BROWN

HOKULE'A

Name of Vessel

Not required

HIN

Surveyor, Dan Ing

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ILLEGIBLE



Photo "A"



Photo "B"



Photo "C"

Page 2...

Appendix (B)



Photo "D"
9 Main beam, portside forward looking aft.



Photo "E"
5 Cross beam, portside aft looking forward.

January 7, 1981

Board of Directors - Polynesian Voyaging Society

Subject: 8mm Film

Objectives: To produce documentary by 8mm film, this will include
use of existing films and slides.
Documentation was a major objective of the 1980 project.

Whom: Mr. John Keawe, film producer

Costs: Expenses only

Obligation: Mr. Keawe will get one copy only.

Time: Mr. Keawe is available at present to start when all material
has been turned over to him. However, he would like to meet
and go over and discuss areas to be covered within the film.
It is recommended that the following meet with Mr. Keawe,

Gordon Piianaia
Steve Somsen
Dixon Stroup
Leon Sterling, and all others interested.

Results: Research and educational use.

HOKULE'A - MAJOR REPAIRS

January 6, 1981

Per arrangements have been made with the following individuals and companys prior to Hokule'a's repairs at Snug Harbor.

It is of my opinion after inspection of the canoe the repairs listed should be given top priority.

The suggested list of concerns indicates the importance to have Hokule'a back to a seaworthy condition, and in compliance with the Coast Guard regulations.

REPAIRS

MATERIALS

Gunnwales

Port and Starboard, damaged during the trip to Tahiti.
(At present Douglas Fir is being used, however, since the height of the gunnwales have increased, marine plywood would be the stronger of the two.)

3/4 Marine Plywood

1/4 Dacron rope

Boom

"Ehu" (Fabricate a new boom, present one is is made out of "Pine". Wood was bought in Tahiti.)

Douglas Fir
Epozy glue

Crosspieces

"Iakos" (Removal of front iako, supporting the mast step, due to de-lamination.)

Oak or Ash wood

Replace all "Ironwood" iakos
(Front and aft)

Ironwood

Paliwai

Replace complete front of the canoe

Mahogany

Worm Shoe

Check damages and repair

Douglas Fir

Saddles

Replace (For steering paddles)

Guava

Manus

Repair damages

Fiberglass

Hokule'a - Major Repa

Sweeps

Replace shaft on center sweep
Fabricate new sweep with present blade) Ironwood

Stanchions Posts

Replace Navigation posts
Safety rail posts Ironwood

Hulls and Manus

Paint Ivory Shell
Walnut Teak

LOCATION: Snug Harbor - University of Hawaii
letter of confirmation from Mr. Dixon Stroup

HAUL-OUT: Hawaiian Crane and Rigging, Mr. Chester Kuaha
Crane and operator - First 4 hours \$65.00 per 260.00
Labor cost after 4 hours \$30.00 per hour.
Note: PVS is responsible for all rigging.

40 HP ENGINE: Outboard Sales
211 Mokaues Street
Tel: 841-2428

Mr. Saito (owner) who for many years has maintain
the engine, suggests that the Society, retain the present
engine and will be submitting the cost of repairs to rebuild
the 40 HP.

LABOR: PVS contract two men full time to reduce the time schedule
from three (3) months to one month only.
I have been in contact with Mr. John Kruse, Mr. Kruse is in
agreement to spend a month here in Honolulu to repair the canoe.
Besides myself, it is my recommendation that a journeyman carpenter
be hired, Mr. Kruse long association with the canoe makes him an
expert.
Terms of contract to be discussed.

FIELD TRIP: State Parks - Mr. Yusimura/Mr. Eddie Wong (Waimanalo State Park)
Kamehameha School - Mr. Gordon Piianaia

#8 ironwood logs
hau

Volunteer manpower

STORAGE: 40' Matson container for storage, tools, lumber

TOOLS: PVS Tools
Speed block
Drill
Electric plane
Power saw
Hand tools

Report submitted by:

Leon P. Stirling

15/27

#50
#80

2-
wood - boom
1x6" - 500 feet
\$500.00

60.00 glue

252.00 mizzen
232.00

mast - 2

Solid sitkas

main 44" x 24

\$432

Suff -
\$612.00

mizzen
\$1288

figures from list.

#6 Seal hatch

~~cover-deck~~

working on guests

\$1

88.20

15.88

96.08

} goblets

steering paddle
handles - 4

32'

\$1152

Grand total:

\$2970

FOB - Seattle

Phil Tebb Tacoma,

no freight

Wash

Loshiney - 1,208.00
 Wood for
 boom
 gaff
 2,970.00
4,178.00

Worm shoe 700.00

Paint Hulls, 485.00
 Juncal
 manes

Construct
 grumels 850.00

deck 200.00

4,178
 700
4,878
 485
5,363
 850
6,213
 1,200
6,413.00

- Buddy - Ok. hooking on can
1. Wren Ave - start right away
 2. leave iakos on
 3. whole deck off - send / varnish
 4. " " new iakos
 5. Remove old iakos / refit iakos
 6. Plumb hulls.

Tues 5/25 - Got # from Cents + gave to Art. He will call tomorrow morning.

Wed ^{morning} 5/26 - Meeting tomorrow 445 - Spoke to Wally he works with meet w/ Nainoa
Cents - will hold \$500 aside for Wally
Call Buddy wants to meet Art

Work day: Sat 9:00 AM.

Wally
Mar
Cents
Jerry Muller (?)
Chuck
Leon
Kathy Hansen
Dixon Stroup - yes
Art

Meeting:

Harry Ho [REDACTED]
Buddy
Kemo
Wally
Cents
Mike
Greg B.
Steve/Guido (?)
Dave Legman
Guy Rothwell
Art ✓

Thurs:
5/27

Kam's Express - Mr. Pang - iakos were delivered to Keehi on Wed. 5/26

Meet w/ Nainoa, Wally, Leon at Pier 18 4:00 pm
445 - Canoe meeting at Keehi

Sat. 5/22

Art Mustreau will make arrangements to pick up laka. Dixon Stroup will arrange for truck from U.H.

To Do: a) Call Nainoa - for meeting
b) Send thank you's to

Ross Reed
Dixon Stroup
Kimo Lyman
Bernie + Nancy Kolonday
Ogilani
Lulene
Hardy Spoeck
Steve Punell
Dennis Teragawa
Steve Williams
Gary Kern
Art Hansen
Seagull School

c) Budget to Arts / Nainoa

d) Ask about removing items at Kam School + lines at Keehi - STORAGE(?)

Mon. 5/24

Art called... Matson doesn't seem to know anything about our order. Tried calling Guy Rothwell.

Tues. 5/25

No answer at Guy's office. Left message with answering service at home to call Art M. - "needs more info re: laka."

Riedermeier - Martin Company
Oregon Portland
Dick Bortw

5/19 Sent work plan to Saturday's volunteers & C. Committee members.

Kathy Henson

[REDACTED]
Hnl 96822

Art Meers / Kems

[REDACTED]
Hnl 96819

Hardy Spoech Hauor .. Homes

[REDACTED]
Hnl 96813

Bernie Kelonsky

[REDACTED]
Hnl 96701

Steve Parnell

Julian Lindner

[REDACTED]
Hnl 96843

[REDACTED]
Hnl 96815

Ogi Kem

[REDACTED]
Hnl 96814

Dennis Terazawa

[REDACTED]
Hnl 96828

Plan

- Buddy ~~1~~ ¹ ~~set up~~ ^{at} ~~on~~ ^{conceal} ~~Drums~~ - ~~Buddy~~ ^{chub} ~~(tomorrow)~~ ^{Friday} ~~LEON~~ ^(later the return)
- Wally 2) start work on ~~chub~~ ^{Remove the Deck} ~~(off section of)~~ ^{* leave the I shore}
- chub 3) sand + ~~start~~ ^{OK} ~~into~~ ^{deck} ~~piece~~
- Wally 4) sand hull ~~Remove the~~ ^{actually} ~~the~~
- Buddy 5) ~~the~~ ^{sand} + ~~varnish~~ ^{Interst} ~~(new ones)~~
- ~~Remove the~~
- Wally 6) ~~Remove~~ ^{Interst} ~~(one on)~~
- ~~Remove hull (Discontinuation of all other work)~~
- Buddy 8) re fit all inter - varnish again
- Wally 9) Plumb hull (Discontinuation all other work until all Interst are worked.)
- Wally 10) work Interst

need call
Leona
Morning

TOWING -

X - WESP Budget

2

Existing Budget

300 VANISH Osele, Inkos, set - church X

850 green wall - star

700 warm shoe - welly

flump corner - grey

485 hulls Print hulls - welly

1722 Mark Room - leas

300 Police Rd - ~~chuck~~ ?

1208 washing - wain

50 greasing - mowers - wain X

50 ref. by - Bachelly X

~~1143~~ =~~857~~ ~~contingent~~300 Seal Osele + ~~grub~~ Xgrub = ~~supplied~~96 ~~94~~ ~~asked~~~~5000~~ ~~from~~ P.D.S.~~contingent~~

3

Finalize the Plan:

Schedule the Jobs in order.

- Budget / money Ans.
- Time frame
- Material who order (less) less + Ans
- Tools?

Work schedule - Norwida + Machine

Many

(X) Each head:

- get money from Ans. (get receipts)
- get new material + task to cause

Supervisors:

Walley
less

If have question send it to them

Separate
separate from canoe!

up N 1) Mast, Boom + spars

stave 2) gunwales

chuck 3) Cut IRON WOOD + haw

(big ones for) all small pieces -
small ones for + small pieces -

small + 1 small small small 1.5

Canoe committee

November 16, 1981

TO: PVS BOARD OF DIRECTORS

The problem we are faced with is getting Hokule'a repaired. It is ultimately the responsibility of the Board to see that the mission of the PVS is carried through. But in reality, responsibility rests with all those who have invested "something" to Hokule'a. One of the major functions is to see that Hokule'a sails.

Frankly, when Hokule'a sails or when she has direction towards a voyage, then the PVS has motion, it has something to build and progress towards. PVS then becomes functional and accomplished. But the reversal of progression is destruction. As the canoe sits, it is not only idle, it is decaying.

How long is it to sit? What will it look like if we let it sit for another year? Does anyone know how long it will take for it to totally decay away, and render itself useless, to become the same as all other sailing canoes, only memories. The PVS is simply made up of people and a canoe, each a mirror image of each other. What is the reflection that we want to cast? Not necessarily an image portrayed to others to evaluate but rather an evaluation aimed at one's self.

N. Thompson

November 16, 1981

TO: PVS BOARD OF DIRECTORS
FROM: WILL KYSELKA AND NAINOA THOMPSON
SUBJ: USE OF HOKULE'A

Recently, I submitted a proposal to the Board of the Polynesian Voyaging Society on the use of Hokule'a for navigational research. The Board approved that proposal.

As soon as the canoe is in "condition" for sailing, I want to take the canoe on weekends out beyond the sight of land to increase knowledge.

I hereby also propose a voyaging program that will not incur such great amount of expense as in the past to begin in April 1982. The voyages would be to Christmas Island and take about a month for the round trip. Christmas Island is long-distance voyaging away from land and encounters the northeast trades, the doldrums, and the southeast trades. A plan could be further developed to make this an annual or semi-annual event.

Given that Hokule'a would be in its "seaworthy" condition and ready to sail, cost for this type of voyage could be kept to a minimum. With the understanding that the same crew will be making the round trip voyage, there will be no expenses in air fare (a major expense in the previous voyages). The only major expenses other than purchasing some needed safety gear, would be food. There expenses could be kept to a minimum by 1) keeping the crew to a minimum 2) having the crew members partially or totally pay for their food expenses.

After increasing our experiences on Christmas Island voyages, the ultimate trip is that to New Zealand from South Point. Such voyaging will expand our knowledge of Polynesian sailing and our knowledge of the arts and crafts of Polynesia.

I hope to make a trip to New Zealand in January 1982, for research in oceanography and meteorology to better understand the complexities of sailing in that region of the Pacific.

We have already worked on the "sea roads to New Zealand" in the Planetarium and that work continues.

EXTENSION EDUCATION DIVISION
Kapalama Heights
Honolulu, Hawaii 96817

KAMEHAMEHA SCHOOLS / BERNICE PAUHI BISHOP ESTATE

April 29, 1981

Mr. Kimo Lyman

Waialua, Hawai'i 96791

Dear Kimo,

Art Mersereau has informed me of having the canoe Hokule'a participate in the Maritime Boat Show on May 17, 1981 (Sunday).

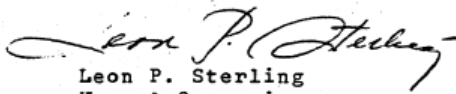
I will be unable to handle the day sail since I will be on Maui for the week-end. Would you consider being Captain? The Board of Directors will also take part on this day.

Please call me () or Jo-Anne () to verify the above.

Major concerns:

- . Crew Selection
- . Safety equipment
- . Waivers
- . Captain's check list

Sincerely,


Leon P. Sterling
Vessel Supervisor

cc: Mike Tongg

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POLYNESIAN VOYAGING SOCIETY

BOX 19000-A / HONOLULU / HAWAII 96819 / (808) 841-3966

2 May 1981

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FROISETH

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JOHN KRUSE
FRANCIS KAINOA LEE
DAVID B. K. LYMAN, III
SIGFRIED RAMLER
BENJAMIN B. C.
YOUNG, M.D.

FROM: Steve Somsen

Kailua, Hawaii 96734
U.S.A.

TO: Ramon Abad
Lag-itan, Panglao, Bohol
Philippines

copy to: Polynesian Voyaging Society

Aloha,

Thank you for your letter of 5 April 1981 in which you returned the message from the Hekule'a. That message-in-a-bottle was dropped into the ocean on 25 Maoh 1980 from the Hekule'a as we sailed from Hawaii to Tahiti. The bottle drifted with the ocean current for 376 days, moving 6000 miles to the west at a rate of almost 16 miles per day.

Enclosed in this letter you will find a photograph of the Hekule'a as promised in the message.

If you should ever journey to Hawaii please be sure to contact the Polynesian Voyaging Society and tell about your experience in finding the message-in-a-bottle. The Hekule'a is here in Hawaii again, having returned from Tahiti. You would be most welcome to come aboard the Hekule'a. Thank you again.

Sincerely,

Steve Somsen

HAWAII

TAHITI



BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

25

POLYNESIAN VOYAGING SOCIETY

BOX 6037 / HONOLULU / HAWAII 96818 / (808) 841-3966

file

2 May 1981

PRESIDENT
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VICE PRESIDENT
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TREASURER
ANTHONY GUERRERO, JR.

SECRETARY
RENEE MILLER

BOARD OF DIRECTORS
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ROBERT LILJESTRAND
GERALDINE MARULLO
MARION LYMAN-MERSEAU
JERRY KAUMUALII MULLER
CHARLES REEVES
STEVE SOMSEN
JO ANNE KAHANAMOKU
STERLING
AUGUST YEE
BENJAMIN B. C.
YOUNG, M.D.

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G. ZULU KAUHI
PO'OMAI KAWANANAKOA
ED KEALANAEHELE
REVEREND
JOHN KRUSE
FRANCIS KAINOA LEE
DAVID B. K. LYMAN, III
SIEGFRIED RAMLER

FROM: Steve Somsen

Kailua, Hawaii 96734
U.S.A.

copy to: Polynesian Voyaging Soc.

TO: Mr. Edward Taribieu
Atariboe Mission
South West Maio
South Santo
Republic of Vanuatu
South West Pacific

Aloha,

Thank you for your letter of 14 April 1981 in which you told me about finding the small red letter bottle washed ashore.

I will be very happy to send you a picture of the Hokule'a. But first I would like to ask you to write to me again. Would you please tell me the number of the voyage day on the letter that you found? I am sending to you another copy of the letter. The information that I would like to have is in the line outlined in the color yellow: "This container was dropped from the Hokule'a on its _____ day of voyage."

You could send me the original letter or simply write the correct information in the space on the copied letter that is enclosed. When I receive that information I will send you a photograph of the Hokule'a. THANK YOU!!!

Sincerely,

Steve Somsen

HAWAII

TAHITI



File

To: Board of Directors, P.V.S.
From: Nainoa Thompson
Subject: Use of Hokulea

Please let this letter serve as my request for regular and continued use of the Hokulea starting in May of 1981 in order to continue the study of sailing and navigation

This study is necessary if the knowledge and skills of navigation and sailing learned during the 1980 Hokule'a voyage are to be retained. Use of Hokule'a would provide for:

- (1) a constant review of what has been learned
- (2) an opportunity to explore new concepts and ideas about navigation with some specific goals:
 - steering on overcast nights
 - steering by the feel of the swells
 - sailing in winter conditions with shifting winds
- (3) unstructured sailing time to observe the sea and what it has to offer in terms of non-instrumental navigation
- (4) build upon the existing knowledge base of polynesian seafaring by continuing to collect and produce information on the subject. Aiming to produce a sound reference in terms of non-instrumental navigation, sailing of Hokule'a and safety at sea.

Procedure: .

- (1) I will assume responsibility of vessel and crew while at sea. Operating under the conditions and procedures set by Captain Gordon Pihlanala, Canoe Committee, and the existing "Captains Check list" (enclosed). I am asking for the safety equipment and other necessary gear needed to sail to be made available.
- (2) Proposing to sail with a crew of not less than 5 and no more than 12. Approximately once a week or once every two weeks, on varied sail plans ranging from day or overnight sails to sails up to 3 days long. It must be understood that the priorities of canoe repairs and functions that require Hokule'a will be observed above the request of the activities of this proposal.

MACGILLIVRAY-FREEMAN FILMS
c/o P.O. Box 1407
Hanalei, Hawaii 96714
Ph: 826-9440/826-9737

May 23, 1981

TO: LEON STERLING, JR.
JOHN KRUSE

FROM: RIVIAN BELL

RE: HOKULE'A

The following are cosmetic changes which we would like to arrange while the Hokule'a is in dry dock this month:

1. Re-paint topsides of the hulls to resemble woodgrain. Use dark anti-fouling bottom paint on bottom of hulls. No additional varnish.
2. Remove varnish from masts and all visible wood--Oil wood items only.
3. Canvas between hulls may be left for protection from water with the understanding that, if the canvas needs to be removed for filming, such removal will take no more than 30 to 60 minutes in time.
4. Lashings along the mast will be replaced with manila or similar sennet-looking rope.
5. Carvings for the canoe (ki's) will be brought aboard the vessel when it is sailed to Kaua'i. Lashing the carvings on the canoe will not take place until arrival in Kaua'i.
6. The rounded hale for the canoe will be lashed on prior to sailing to Kaua'i. Lashing will be done with manila or similar sennet-looking rope. Lauhala thatching will be applied once the canoe arrives in Kaua'i.
7. We will freight both the lauhala sail (which has been repaired) and the extra back sail which we are adapting to resemble lauhala. This will prevent any extra weight on the canoe while sailing to Kaua'i.
8. You will prepare a new iako or similar-looking crossbeam---again, without varnish and using watco oil only.
9. Splash rails on the gunwalls prior to filming.

March 3, 1981

TENTATIVE PLANS OF IMAX FOR HOKŪLE'A

Film company	SAIL
Leon	PAINT HULLS
Leon	REMOVE VARNISH
Leon	OIL WOOD
Film company	PUT SENNIT ON
" "	MATS PUT ON
" "	HALE
Leon	REMOVE MO'O'S/WALK RAILS
Leon	SPLASH GUARDS
Leon	MODIFY RIGGING

Recieved by:

tentative plans of Imax for H&K

US	sail		
leon	hull - paint	John	Rouse
leon	varnish - take off		contract
leon	oil wood		
US	put Sennett on		
US	mats put on		
US	the hole on		
leon	take side railing off (walk rails)		
leon	don't take canvas off yet		
leon	dyeing rope ?		

February 8, 1982

TO: Polynesian Voyaging Society

FROM: Leon A.P. Sterling
Canoe Chairman, Vessel Supervisor

Subj: Canoe Chairman

I apologize for the delay to inform the Board that I am unable to continue in the position as Canoe Chairman. In consideration to my employer, my work schedule makes it impossible for me to devote full time to Hokule'a.

I recommend Nainoa Thompson to the position as stated. In our discussions I assured Nainoa that I will be willing to serve as a consultant concerning the major work yet to be done on Hokule'a.

If this is in agreement with the Board, I would appreciate hearing from you.

Sincerely yours,

Leon A.P. Sterling



cc: Gordan Pii'anai'a
Nainoa Thompson



HOKULE'A

DRYDOCK

Thursday, March 25, 1982
Nainoa - Coordinator

Time: 9:00 A.M. - 4:00 P.M.
Job: Tow Hokule'a from Heeia to Keehi
and secure in front of the Hawaiian
Queen.

Friday, March 26, 1982
Wally - Coordinator

Time: 9:00 A.M. - Pau
Job: Haul Out

- A) Photos on all lashings - M. Tongg
(To be completed before work begins
either on Thursday or Friday morning.)
 - 1. Gunnwales (mo'o's)
 - 2. Iakos
 - 3. Cleats
 - 4. Forward and aft crosspieces
 - 5. Mast Steps (Forward and Aft)
- * B) Scrap, Scrub, and Clean Hulls - Wally
- C) Inventory and Clean Up - Mar
 - 1. Clean all compartments
 - 2. Clean deck
 - 3. Load all tagged equipment and rigging
on truck and deliver to Hui Nalu
boat house.

D) Removal of all Equipment - B. McGuire

1. Standing and Running Rigging

(This will be done by Nainoa when the canoe is towed.)

- a) all lines tagged and marked
- b) spars tagged and marked
- c) cleats tagged and marked

2. Remove splash guards and antenna

3. Motor mount and engine

4. Equipment stowed in all compartments

5. Safety rails

7. Stanchion Posts

8. Front Net

9. Mast Steps (forward & aft) (tag and mark)

10. Aft deck safety rail w/cleats (tag and mark)

11. All hatch covers

NOTES: *FIRST PRIORITY: Scrap bottom before dries.

Organize individuals to do work by the amount who get to the drydock.

Chuck will drive flat bed truck from Niu to Keehi on Friday morning.

Put large standing rigging under canoe, if possible.

SUPPLIES: 10 - 3" putty knives
5 - wire brushes
wire balls
200' - water hose
wide masking tape
pental pens

March 15, 1982

TO: Nainoa Thompson
Canoe Committee Chairman

FROM: Marlene

SUBJ: IAKOS

As a fund raiser in 1975, the old iakos were purchased individually. I have written to these individuals informing them that the old iakos are available to them in the "as is condition" or they can be "dressed up" for \$250.00. This is to be done by Wally. They were also asked to once again purchase/donate a new iako for \$700.00

Please notify the person in charge of doing repairs of the above information.

Mahalo nui loa,

344

March 15, 1982

TO: Nainoa Thompson
FROM: Marlene
SUBJ: Sail - Sunday, March 21

The following individuals would like to be included on the sail on Sunday:

Chuck Larson
Steve Albert - Director of Rainbow School
in Kahuku. He is involved
in the grant to take Hokule'a
around the state.

Ian McLean - filmmaker, photographer. He
will donate to the Society film
footage and pictures of Hokule'a
under sail.

Please let me know as soon as possible if the above individuals can participate.

Also, do you want me to notify anyone else besides the Directors regarding the sail?

Aloha,

[Redacted]

Lahua
-Aikane

Duke-

[Redacted]

[Redacted]

Carol-

Elizabeth
Walden
Jerald Red

earliest
st.
twisted - ps
Hickory
[Redacted]
[Redacted]
Breeding Safety

Andy Goehs
no workday

273-2132

273-2132

(225-4702)

B. L. Strand

Nathan Wong

2) ✓ Jim Brooks^{yes}

2. 13) ✓ [redacted]

2) ✓ Mar^{yes}

? ✓ Duke

3) ✓ Veri?

✓ Dennis [redacted] Lembeck

? Motor company

4) Millie Lucy[✓]

✓ 5) Cecilia Linto^{yes}

✓ [redacted] Chuck[✓]

✓ 6) Ants — called

✓ [redacted] Rich [redacted]

✓ 7) Moku — called

✓ [redacted] Lurline^{yes}

✓ 8) Harry Ho

✓ [redacted] Akiko Masuda

19) [redacted] Marion Lynn Masuda

9) Donna Guthrie

✓ Will Kyselka^{yes}

10) Lola

✓ 20) Hardy Spence^{yes}

11) Lei

✓ 21) Bemie

12) ✓ Kathy Henson — 1920

✓ 22) Giron — group

Harry Ho

yes

✓ 23) Jerry Muller^{yes}

96822

12000

yes

5/1/82

By phone today from Dick Baxter,
(Niedermeyer Martin) ~~phone no:~~
~~container number~~

To be shipped Matson Voyage 294

Booking # 460-662

Arrive Honolulu 21 May
on a flat rack with other shipments

Consigned to ^{Kans} Kern's Delivery, in Honolulu.

Consignee take delivery at
Keahi
Shipping Dept.

Keahi - Claus
talked w/long
put near shed

Buddy

Art

Harry

Wally

Mar

Nainoa

Disc: on work shoe

Plumb lines are to have to sep. the hulls.

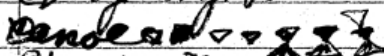
Divide the work + the leadership - their own areas.
Time frame: 3 months.

1)

Wed/Sun

Harry - looking

Chuck - tag everything on

Band 

Sand & oil - Chuck + Mar

Rudy Choy - down for Buddy

Neilson + Mc Guire
Invitations to PVS Board Members - Dixon

W.F. Dec. 20 to
what to throw away
& what to keep.

[This Friday] - up/out/scrapped
tentative & cleaned

14th on drydock, Friday

Buddy - check o Don
Weiss

Buddy McGuire:

ed - takes, int 5
each. proceed to be up
prior to the looking.

POLYNESIAN VOYAGING SOCIETY

BOX 19000-A / HONOLULU / HAWAII 96819 / (808) 841-3966

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VICE PRESIDENT
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SECRETARY
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**ADMINISTRATIVE
ASSISTANT**
MARLENE AMONG

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PO'OMAI KAWANANAKOA
ED KEALANAELE
ROGER KONDO
JOHN KRUSE
FRANCIS KAINOA LEE
DAVID B.K. LYMAN III
SIEGFRIED RAMLER
BENJAMIN B.C. YOUNG

May 13, 1982

Aloha,

There will be a canoe committee meeting
on Monday, May 17, 4:00 P.M. at Pier 12.

Again, to those individuals who are
assuming responsibilities (see attached) in
the repair of Hokule'a, please complete the
following for Monday's meeting:

- a) material list
- b) tool list
- c) budget
- * d) manpower - number of individuals
you require for help
- e) time schedule for work

If you can't be at the meeting, please
let me or Nainoa know.

Thank you again for your help.

Love,

Mar

*The Society has a pool of volunteers.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

01

ORDER OF WORK:

- 1) Drydocking - Leon/Buddy
- 2) Scrap hulls - Buddy
- 3) Tag and photograph parts and items - Chuck
- 4) Itemize and remove parts as the work progresses - Chuck
- 5) Set on drums - Leon
- 6) Pre-fab work (ongoing) - Leon
- 7) Wormshoe - Wally
- 8) Plumb canoe - Guy
- 9) Paint hulls - Wally
- 10) Paliwai - ?
- 11) Fit, replace, and relash iakos - Nainoa
Buddy
- 12) Lash decks, manu spreaders, mast steps,
gunnels - Nainoa
- 13) Replace gunnels - Steve Albert
- 14) Glass manus - Kimo Lyman
- 15) Replace mast, spar, boom - Leon
- 16) Order the wood for mast, spar, boom -
Art Mersereau
- 17) Deliver iakos - Art Mersereau

5/13/82

MINOR WORK:

- 1) Additional carpentry
- 2) Sanding, painting and varnishing - Chuck
 - a) mast steps
 - b) iakos
 - c) bow sprit
 - d) pola
 - e) manu spreaders
 - f) mast, spars, and booms
 - g) running boards
 - h) iako caps

on-going

5/13/82

SKILLED LABOR: (Range of work)

- 1) Pre-fab work - Leon
- 2) Wormshoe - Wally
- 3) Gunnels - Steve Albert
- 4) Paliwai - ?
- 5) Glass manus - Kimo
- 6) Seal flush deck and hatch covers -
Art Mersereau will get estimates
- 7) Plumb canoe - Guy Rothwell/Nainoa
- 8) New mast, spars, booms - Leon
- 9) Refitting iakos - Buddy/Nainoa
- 10) Paint hulls, ammus, gunnels - Wally
- 11) Lashing - Nainoa

5/13/82

notes
meeting of
Hainona 5/12/82

OBJECTIVE: Complete major work to ensure structural and water tight integrity.

- 1) replace worm shoe
- 2) repaint hulls
- 3) repair and repaint manus
- 4) replace paliwai
- 5) replace gunnels
- 6) new masts, spars and booms
- 7) replace iron wood spreader
- 8) relash iakos and deck

(The above work must be done before Hokule'a can sail.)

Situation:

- 1) No money for labor
- 2) Need to do work ourselves, without pay
- 3) Spread work out

ORDER OF WORK:

- 1) Drydock in ^{Leon} - Buddy McGunn
- 2) Scrap bottom ^{Buddy}
- 3) Tag and photograph parts and items - ^{Chuck}
- 4) Itemize and remove parts as the work progresses - ^{Chuck}
- 5) Set on drums - ^{Leon}
- 6) Pre-fab work (on-going) - ^{Leon}
- 7) Wormshoe - ^{Wally}
- 8) Plumb canoe - ^{Guy R}
- 9) Paint ^{hull} bottom - ~~Wally~~ wally
- 10) Paliwai - ^{tentative}
- 11) Fit and replace and relash iakos - ^{Nainoa / Bony}
- 12) Lash decks, manu spreaders and mast steps - ^{Nainoa}
- 13) Replace gunnels and (lash) - ^{Nainoa}
- 14) glass manus [↑] - ^{Kimo Lyman}
[↓] Steve Albert
- 15) replace mast, spar, boom - ^{* Art Muesau}
^{Laminating?} [↓] ^{order the wood}
^{* Leon replace}
- 16) Delivery Eaker - ^{Ant}

SKILLED LABOR: (Range of work)

- 1) Pre-fab work - Leon
- 2) Wormshoe - Wally Froiseth
- 3) Gunnels - Steve Albert
- 4) Paliwai -
- 5) Glass Manus - Kimo Lyman
- 6) Seal flush deck and hatch covers - contract out
- 7) Plumb canoe - Guy Rothwell and Nainoa
- 8) New mast, spars, booms - Leon
- 9) Refitting iakos - Buddy McGuire
- 10) Paint hulls, manus, gunnels - Wally Froiseth
- 11) Lashings - Nainoa Thompson



To the individuals who assume the above areas of responsibility, please turn in as soon as possible the following:

*next meeting
this should
be completed*

- a) material list
- b) Tool List
- c) Budget
- *d) Manpower - number of individuals you require for help
- e) Time schedule for work

* The Society has a pool of volunteers.

MINOR WORK:

- on-going*
- 1) Additional carpentry
 - 2) Sanding, painting and varnishing - *Chuck okay*
 - a) mast steps
 - b) iakos
 - c) bow sprit
 - d) pola
 - e) manu spreaders
 - f) mast, spars, and booms
 - g) running boards
 - h) iako caps

MANDATORY WORK ON DRYDOCK

- 1) Tag and photograph
- 2) Remove and store equipment and rigging
- 3) Scrap bottom
- 4) Move canoe to drums
- 5) Remove parts

REPAIR PLAN

Coordinator

Nainoa

Skilled Work

Wally - Supervisor
Steve Albert

Minor Work

Crew 1980

Lashing

Crew
1976
1978
1980

Ants
Chuck
Jerry
Dixon

* Work Plans to be put out by Canoe Committee: Nainoa, Gordon, Leon, Wally, Marlene
Marlene will handle communications.

OBJECTIVE: Complete major work to ensure structural and water tight integrity.

- 1) replace worm shoe
- 2) repaint hulls
- 3) repair and repaint manus
- 4) replace paliwai
- 5) replace gunnels
- 6) new masts, spars and booms
- 7) replace iron wood spreader
- 8) relash iakos and deck

(The above work must be done before Hokule'a can sail.)

6

ORDER OF WORK:

- 1) Drydock
- 2) Scrap bottom
- 3) Tag and photograph parts and items
- 4) Itemize and remove parts as the work progresses
- 5) Set on drums
- 6) Pre-fab work (on-going)
- 7) Wormshoe
- 8) Plumb canoe
- 9) Paint bottom
- 10) Paliwai
- 11) Fit and replace and relash iakos
- 12) Lash decks, manu spreaders and mast steps
- 13) Replace gunnels and lash
- 14) glass manus

SKILLED LABOR: (Range of work)

- 1) Pre-fab work - Leon
- 2) Wormshoe - Wally Froiseth
- 3) Gunnels - Steve Albert
- 4) Paliwai -
- 5) Glass Manus - Kimo Lyman
- 6) Seal flush deck and hatch covers - contract out
- 7) Plumb canoe - Guy Rothwell and Nainoa
- 8) New mast, spars, booms - Leon
- 9) Refitting iakos - Buddy McGuire
- 10) Paint hulls, manus, gunnels - Wally Froiseth
- 11) Lashings - Nainoa Thompson

To the individuals who assume the above areas of responsibility, please turn in as soon as possible the following: a) material list

b) Tool List

c) Budget

*d) Manpower - number of individuals you require for help

e) Time schedule for work

* The Society has a pool of volunteers.

MINOR WORK:

- 1) Additional carpentry
- 2) Sanding, painting and varnishing
 - a) mast steps
 - b) iakos
 - c) bow sprit
 - d) pola
 - e) manu spreaders
 - f) mast, spars, and booms
 - g) running boards
 - h) iako caps

MANDATORY WORK ON DRYDOCK

- 1) Tag and photograph
- 2) Remove and store equipment and rigging
- 3) Scrap bottom
- 4) Move canoe to drums
- 5) Remove parts

BOX 13000-A / HONOLULU / HAWAII 96819 / (808) 841-3966

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VICE PRESIDENT
KEALUQUANIMOKU FROISE TH

TREASURER
ANDREW C. JOHNSON, III

SECRETARY
CHARLES E. LARSON

ADMINISTRATIVE ASSISTANT
MARILYN ALLEN

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DAVID H. K. LYMAN III
SIGHE RE. D. RAMER
JENNAMIN B. C. YOUNG

May 19, 1982

Aloha,

Thank you for helping on Saturday.

The attached will give you some idea as to what will be happening. If any of you have a good working knife, please bring it. We will cutting some of the lashings.

Ogilani and Legs Hensen don't forget to bring your plastic buckets and a huge sponge.

Steve, someone will pick you up in front of your building at 8:30 A.M.

See you all, and many, many thanks.

Love,

Ma



Saturday, May 22, 1982

Supervisor: Chuck Larson

Job: a) Label, remove and store
b) Clean Compartments

Manpower: Steve Purnell, Dennis Terazawa,
Marion Lyman-Mersereau, Marlene Among,
Bernie Kalansky, Nancy Kalansky,
Hardy Spoehr, Ogilani Kim, Julian
Lipscher, Dixon Stroup, Kathy Legs Hensen

Schedule: Meet at Keehi Drydock at 9:00 A.M.

Materials: Labels
Waterproof pen
Knives
Wrenches - 2
Pinesol - 1
Buckets - 4
Sponges - 4
Truck - ?

IMPORTANT: DO NOT REMOVE ANYTHING UNTIL IT IS LABELED.
GET INSTRUCTIONS FROM CHUCK.

Following items remain on Hokule'a - Do Not Remove:

- 1) Forward and Aft spreaders
- 2) Gunnels
- 3) Hatch covers
- 4) Deck

Following items are to be thrown away:

- 1) Hale
- 2) Animal houses

Following items are to be removed and stored at Keehi:

- 1) Mast
- 2) Boom
- 3) Forward and aft mast step
- 4) Sweeps
- 5) Safety Rail/Stanchion posts

Following items are to be removed and stored (storage area
to be designated on Saturday.):

- 1) Engine and mount
- 2) Canvas
- 3) Running gear (lines and anchors)
- 4) Splash guard
- 5) Pumps

5/19/82

55

Thursday, May 20, 1982

Supervisor: Buddy McGuire

Job: a) Hokule'a to Keehi Drydock
b) Scrap hulls

Manpower: Buddy McGuire
Dave Lyman
Harry Ho

Art Hansen
Chuck Larson (plus 2)
Lurline Degagne
Marilyn Yuen (?)
Steve Williams
Marlene Among
Gary Kim

Schedule: a) 5:30 A.M. meet at Pier 12 to
tow Hokule'a to Keehi
(Buddy, Dave, and Harry)

b) 9:00 A.M. meet at Keehi to
scrap hulls

Materials: a) Anthony Guerrero's boat
b) 12 - scrappers
c) 2 - garden hoses

* Mike Tongg will tow Hokule'a to drydock using
Anthony's boat.

5/19.82

56

Iakos arrive on Friday, May 21
on Matson's Voyage 294

Booking #460-662

The iakos will be arriving on a flat
rack with other shipments. Consigned
to Kem's Delivery in Honolulu.

POLYNESIAN VOYAGING SOCIETY

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SAM KAAI
HERB KAWAINUI KANE
G. ZULU KAUMI
PO'OMAI KAWANANAKOA
ED KEALANAELE
ROGER KONDO
JOHN KRUSE
FRANCIS KAINOA LEE
DAVID B.K. LYMAN III
SIEGFRIED RAMLER
BENJAMIN B.C. YOUNG

June 1, 1982

*Board of
Directors*

Aloha,

Hokule'a has been on drydock since Thursday, May 20. Attached is a copy of what has been completed, and the order in which the remaining work will be done.

The response from volunteers has been very positive, and there are a lot of new ideas and talents being shared with the "old timers."

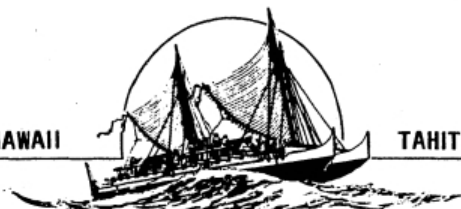
If you have the time, come by on any Saturday. . . work begins at 9:00 A.M.

Love,

Marlene

P.S. The Board of Directors meeting will be held on Thursday, June 24, at 7:30 P.M. at the Froiseth's home. See you then.

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

58

Objective: To match existing lashings

STRUCTURAL

NON-STRUCTURAL

Safety Rails					
Sweep Yokes					
Middle Sweep					
Stanchion Post					
Navigation Platform					
Aft Rails					
Running Boards	Total	1/4" Dacron	1roll	57.75	58.00
					<u>1104.00</u>
				Tax	<u>46.00</u>
				Total	<u>\$1208.00</u>



HOKULE'A

The following information was given to me by
Steve Albert and Guido by telephone on Friday,
May 21, 1982.

JOB: Gunnels

MATERIALS: 4 pieces of three quarter inch
mahogany, marine plywood - 24
feet long and 4 feet wide

COST: Approximately \$850.00 (includes
shipping

ALLOW 2 WEEKS FOR DELIVERY

COMPANY: Birchwood - Los Angeles

REASON: No one in Hawaii carries anything
longer than 8 feet. Also, by using
4 pieces you: a) increase the strength
and
b) production time decreases

Steve Albert's phone: 293-9341 (Rainbow School)

Guido's phone: [REDACTED] (home)

Job # 10 PAINT HULLS, MANUS & GUNNELS

WALLACE FROISETH

a) List of Materials:

Estimated Costs:

5 gals. Brown Paint for hulls	\$ 200.00
2 gals. Buff Paint for manus and gunnels	80.00
5 gals. Paint Thinner	35.00
Sand paper - various sizes, #60, #80, #100	60.00
Sanding discs - 6/#60, 6/#80	30.00
Masking tape - 3/1 1/2" or 2" x 60 yds.	10.00
rag & 1 gal. cans (n/c)	

b) Tool List

2 Vibrator or block sanders	
2 Disc sanders	
2 Soft pads	40.00
4 Paint brushes - 2/4", 2/3"	30.00

c) Budget

Estimated Total

\$ 485.00

d) Manpower - Six persons

e) Time schedule for Work

Start as soon as possible - probably third week after going up on drydock.

Fourth week - Sand all manus

Fifth week - Sand all hulls

Sixth week - Sand and paint gunnels - after fabrication completed.

Seventh week - Paint one coat on bottom.

Eighth week - Paint and spot as needed and final touch-up.
- Paint name on hulls.

Just before launching (one day) put final coat on bottom.

Job # 2 WORMSHOE

WALLACE FROISETH
BUDDY McQUIRE

a) List of Materials:

Estimated Costs:

Wood - Douglas Fir (size not known)	\$ 300.00
Wood screws	100.00
Nails	20.00
Bedding Compound (10 tubes)	100.00
Glue	20.00
Sea-going Poxxy Putty (2 qts.)	40.00
Fiber-glass & resin	100.00
Misc. blocks & 2x4's	

b) Tool List

1 set chisels, 1 sweep chisel
Portable electric planer
Disc sander
Electric drill & bits (long bits)
Sledge hammer
Screw driver
Brace & bit
Hammer
Pinch bar
Skill saw
Clamps
Hydraulic jacks (needed for shifting support blocks,
may be available from drydock)

c) Budget Estimated Total \$ 700.00

d) Manpower - Four persons

e) Time schedule for work - Start as soon as up on drydock.

First day - (1. Complete inspection
2. Record condition and sizes for wood order

Second day - Decide on plan of action.

First week - Removal of old shoe sections, not supporting hulls.

Second & Third week - Fabricate sections - install - and rough shape.

Fourth week - Relocate supports and remove balance of old shoes.

Fifth & Sixth week - Fabricate sections - install - and rough shape.

Seventh week - Finish shaping and fill in joints as needed.

Eighth week - Complete and Paint.

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BUDDY McQUIRE

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Wood - Douglas Fir (size not known)	\$ 300.00
Wood screws	100.00
Nails	20.00
Bedding Compound (10 tubes)	100.00
Glue	20.00
Sea-going Poxy Putty (2 qts.)	40.00
Fiber-glass & resin	100.00
Misc. blocks & 2x4's	

Estimated Costs:

b) Tool List

1 set chisels, 1 sweep chisel
Portable electric planer
Disc sander
Electric drill & bits (long bits)
Sledge hammer
Screw driver
Brace & bit
Hammer
Pinch bar
Skill saw
Clamps
Hydraulic jacks (needed for shifting support blocks,
may be available from drydock)

c) Budget

Estimated Total

\$ 700.00

d) Manpower - Four persons

e) Time schedule for work - Start as soon as up on drydock.

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b) Tool List

2 Vibrator or block sanders	
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2 Soft pads	40.00
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Sixth week - Sand and paint gunnels - after fabrication completed.

Seventh week - Paint one coat on bottom.

Eighth week - Paint and spot as needed and final touch-up.
- Paint name on hulls.

Just before launching (one day) put final coat on bottom.

All Lashing will be DACRON/all twisted rools 600' long.

Objective: To match existing lashings

STRUCTURAL

<u>Description</u>		<u>Dia.</u>	<u>Length</u> <u>P.Unit</u>	<u>Number</u> <u>Units</u>	<u>Total</u> <u>Length</u>	<u>Number</u> <u>Rolls</u>	<u>\$</u> <u>P.Roll</u>	<u>Total</u>
Iakos outside	Braided	1/4	36'	40	1440	3	95.15	285.00
Iako to Iako cap	Twisted	1/4	38'	14	532			
Deck spacing		1/4	2'	160	360'			
Gunnels		1/4	80'	4	320'			
Mast Step / Hope Front		1/4	3 1/2'	31	110'			
			wraps					
Mast Step / Hope Back		1/4			72'			
Mast Step / Ihu Front		1/4	4' wrap	22	88'			
Mast Step / Ihu Back		1/4	4' 4"wrps	28	122'			
					1604'	3	57.75	168.00
Manus	Twisted	5/16	64'	4	256'			
Iakos inside		5/16	46'	40	1840'			
Deck Iakos		5/16	34'	54	1360'			
"Y" Tie Deck to Iakos		5/16	57'	12	684'			
					4140'	7	92.78	1104.00

NON-STRUCTURAL

Safety Rails								
Sweep Yokes								
Middle Sweep								
Stanchion Post								
Navigation Platform								
Aft Rails								
Running Boards	Total			1/4" Dacron		1roll	57.75	58.00
								1104.00

Tax 46.00

Total \$1208.00

- * All Lashing will be DACRON / all roll 600' long.
 * Objective: to match existing Lashing all around 300' long.

Structural					# of rolls	# per roll	\$ Total
Description	Dia.	Per unit (length)	# units	\$ / unit	# of rolls	\$ per roll	\$ Total
Inlets - outside	5/16	46'	40	1870	3	92.78	278.34
Inlets - outside	1/4	36'	40	1440	3	95.15	285.45
Inlets to Inlet Cap	1/4	38'	14	532			
Deck Spacing	1/4	2	160	360			
Drumwale	1/4	80	4	320			
Mask Stop - front	1/4	3 1/2' wraps	31	110			
" " - back	1/4			72			
" " - Inlet	1/4	4' wraps	22	88			
" " - Deck	1/4	4' 4" wraps	28	122			
				1604	3	57.75	168.00
Manhole	5/16	64'	4	256			
Inlets - Inside	5/16	46'	40	1840			
Deck Inlets	5/16	34'	54	1360			
4" Tri Inlets	5/16	57'	12	684			
				4140	7	92.78	651.00
					13		1104.00
Non structural							
Safety Rails							
Swamp Gate							
Middle							
Swamp							
STANWOOD Post							
Nail Post							
Not rails							
Running Board							
			TO FR	1/4"	DACRON	1 Roll	57.75
							58
							1104.00
							1162.00
							1208.00

POLYNESIAN VOYAGING SOCIETY

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DAVID B.K. LYMAN III
SIEGFRIED RAMLER
BENJAMIN B.C. YOUNG

June 29, 1982

Aloha,

Hokule'a is on drydock at Amfac Marine
on Sand Island Road.

She is being completely refurbished with
new iakos, lashings, gunnels, safety rails,
and much more.

Workdays have been scheduled for every
Saturday at 9:00 A.M. Please join us. . . .
we need your help.

Mahalo,

Marlene

P.S. If you can't participate on Saturdays,
but would like to help during the week call
Wally Froiseth() or Nainoa Thompson
() home) (537-3683 work).

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

POLYNESIAN VOYAGING SOCIETY

BOX 19000-A / HONOLULU / HAWAII 96819 / (808) 841-3966

*past crew members
& volunteers*

PRESIDENT
MICHAEL A. TONGG

June 15, 1982

VICE PRESIDENT
KEALUPIAIAIMOKU FROISETH

TREASURER
ANTHONY GUERRERO, JR

SECRETARY
CHARLES E. LARSON

Aloha,

**ADMINISTRATIVE
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DIXON STROUP
MYRON THOMPSON
NATHAN WONG
AUGUST YEE

Hokule'a has been on drydock since Thursday, May 15. Attached is a copy of what has been completed, and the order in which the remaining work will be done.

If you have the time on Saturday, June 19, at 8:30 A.M., please come to Amfac Marine drydock on Sand Island road to help refit the new iakos and possibly lash.

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DAVID B. K. LYMAN III
SIEGFRIED RAMLER
BENJAMIN B.C. YOUNG

Wally Froiseth has been working hard sanding and varnishing the new iakos (7 coats) and they are absolutely beautiful!

We need your help.

Mahalo.

Nainoa Thompson - [redacted] home
537-3683 work

PVS - office 841-3966
home [redacted] (Marlene)

HAWAII



TAHITI

BICENTENNIAL VOYAGE OF REDISCOVERY
HOE AKU I KA WA'A

June 15, 1982

TO: All Concerned
FROM: Nainoa
SUBJ: Work Plan

On Saturday, June 19, we will be refitting the new iakos, and will need as many hands as possible. Please try to be at the drydock at 8:30 A.M. Thanks.

1. Set up on drums - (completed)
2. Start wormshoe - Wally Froiseth
3. Remove deck - Chuck Larson (completed)
4. Cut hau and ironwood - Chuck Larson (completed - hau soaking at Oceanic Institute)
5. Sand and oil deck pieces - Chuck Larson
6. Start gunnels - Steve Albert/Guido Lang (gunnels are being made at their workshop)
7. Sand hulls - Wally Froiseth
8. Dress, varnish new iakos - Wally Froiseth (completed)
9. Remove old iakos - Nainoa Thompson (completed)
10. Refit new iakos and varnish again - Wally Froiseth/Buddy McGuire
11. Plumb hulls - Guy Rothwell
12. Lash iakos - Nainoa Thompson
13. Glass manus - Kimo Lyman

The drydock supervisors are Wally and Leon. If you have any questions, please direct it to them.

Please call Anthony Guerrero () first before you purchase any materials, and don't forget your receipts. For your convenience, I have attached "request for payment" forms.