

3-933
JIS:jmb-20
30 DEC 1954

From: Project Officer, Project 2.4
To: Fr. G. Ewing, Deputy Director Program II
Via: (1) Director, Program II

Subj: SIO requirements on YAG 40; summary of

1. To summarize our understanding, as of this date, of the requirements for the modifications to YAG 40 for SIO, the following items are submitted:

Item 1. Towed Selective Samplers: The following components will be installed on the YAG 40:

- (a) "A" Frame: An "A" frame will be mounted on the stern of the ship supporting a McMissick floor block. The centerline of the block will be approximately 7' above and 2' aft of the stern.
- (b) Winch: A 15 HP Darkey Winch will be mounted on the aft deck house. The winch and the pulley will be electrically isolated from the ship.
- (c) Shock Absorber: A shock absorber will be installed limiting the surge of the tow cable to 24".
- (d) Operating Platform: A removable platform will be installed to provide a work area when attaching or removing samplers to tow cable.
- (e) Work shop area: A room in the aft deck house will be reserved for SIO work and storage areas. Two work benches will be provided - 110V outlets will be installed.
- (f) 4 TOW-2 cable will be provided, terminating in boxes in the aft deck house and in the secondary control room in Hold.
- (g) SIO will provide and supervise installation of the following components:
 1. 5000' of 3/3" nylon covered cable
 2. Depressor
 3. Selective samplers
 4. Instrumentation for aft deck house

Item 2. Flooding Inert Gas Tank: A modified depth charge rack will be installed on the starboard side on the YAG 40, opposite #5 Hatch. The rack is designed to accommodate twenty-five 50 gallon oil drums. The releasing mechanism will be remotely controlled from the

3-933	3-930	3-901		3-213A	
WMA	ERS	WIC			
12/23/54	12/22/54	12/29			

3-933
JIS:jab-20

Subj: SIO requirements on YAG 40; summary of

secondary control room in #3 Hold. The drums are to be furnished by SIO.

Item 3. Rathytharavazh Singh: SIO requirements for the 11 which have been cancelled. (Reference letter W. G. Van Horn to M. B Hawkins, 19 Oct 1954.)

Item 4. Operational Requirements:

- (a) No SIO personnel will be aboard the YAG 40 during operations.
- (b) All trial runs and testing of experimental equipment will be conducted from SIO.
- (c) All SIO furnished equipment should be sent to SIO for installation on the YAG 40 by 1 April 1955.
- (d) SIO personnel should be on hand at SIO for trial runs during April, the actual dates of which are to be determined later.
- (e) SIO personnel responsible for water sampling should accompany one of SIO vessels on the next trial run involving the use of the towed selective samplers.
- (f) SIO has no requirements for equipment on the YAG 59.

2. Should any clarifications, additions and/or deletions be required, please contact us immediately.

M. B. HAWKINS

3-101-1000
30 OCT 1954

Sent to SIO on his of Project Officer, Project R.4, 3-933
JIS:jab-20 dtd 30 Oct 1954

From: Commanding Officer, U. S. Naval Radiological Defense Laboratory
To: Mr. G. W. King, Deputy Director Program II

Subj: SIO requirements on YAG 40; summary of

1. Forwarded.

ROBERT F. COYLE
Associate Scientific Director
By direction