Sub21 Operational Outline

# Setup

Set Dive Planes = Neutral

Set For Ballast = Empty

Set For Ballast Zero

Set Aft Ballast = Empty

Set Aft Ballast Zero

Wait for Waterline = transition High

Wait for Level = transition High

# Loop

If Surface = Low or Battery = Low or Signal = Low

Go to Surface

Else

If Waterline = Low

Go to Waterline

Else If Level = Low

Go to Level

Else

If Auto = High

Go to Manual

Else

Go to Auto

End If

End If

End If

# Waterline

Get Dive Planes PPM

If Dive Planes PPM > 0

Increase Ballast proportionally

End If

If Dive Planes PPM < 0

Decrease Ballast proportionally

End If

Write to Motors

Check Motors

# Level

Get Dive Planes PPM

If Dive Planes PPM > 0

Shift Ballast forward

End If

If Dive Planes PPM < 0

Shift Ballast aftward

End If

Write to Motors

Check Motors

# Auto

Control Dive Planes for Auto Depth Control

Control Ballast for Auto Pitch Control

# Manual

Pass through Dive Planes PPM to Dive Planes

Set For Ballast = Neutral (waterline and level)

Set Aft Ballast = Neutral (waterline and level)

# Surface

Set Dive Planes = Surface

Set For Ballast = Empty

Set Aft Ballast = Empty