



F-18C

How do I do that on the DDI/UFC/MPCD/HUD?



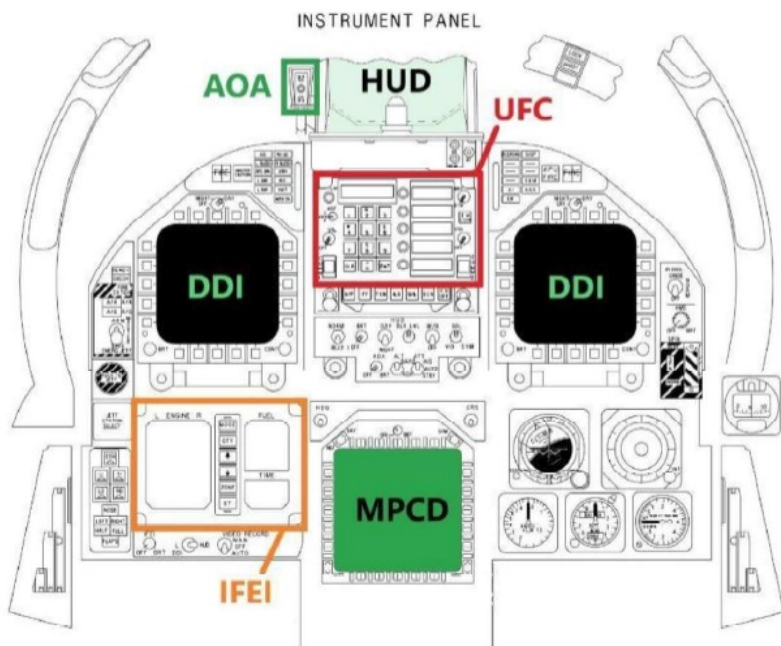
**HORNET AVIONICS GOUGE - FLT SIM USE ONLY**



NON-BONUS AVIATORS INC

©2020 DCSW OB 2.5.6X - 9 JULY 20 CH2

**NOTE:** The DCS F-18C HORNET AVIONICS GUIDE, (HAG), is an abbreviated aircrew checklist style product designed to quickly enable you to perform the desired task with the F-18C Avionics. It assumes you have familiarized yourself with the DCS F-18 User Guide and have watched some of the excellent online tutorials on the basic operation of the Upfront Control Panel (UFC), Digital Data Indicator (DDI), Multi-Purpose Color Display (MPCD), and the Head Up Display (HUD).



**DESIRED TASKS** are highlighted in black or other color with white lettering in the pages to follow. **[Green lettering]** enclosed by brackets depicts a “boxed” indication on the DDI. **Bold black text** represents the button to be pushed on the DDI/MPCD unless **(UFC)** or **(IFEI)** is indicated. Checklist pages may have multiple columns, so bottom right flows to top left when reading the checklist.

I recommend you create a mission with your F-18 airborne at Angels 25, with the desired weapons payload, and unlimited fuel so you can’t run out of gas while conducting button-pushing practice. Use **Active Pause (LSHFT+WINKEY+PAUSE)** to freeze the sim in flight. Now, use this gouge to practice the interactions between the UFC, DDI, MPCD, and HUD until they become second nature to you.

You can watch a video to learn once, then forget later; or place the HAG on a kneeboard or iPad and always have the information at your fingertips! Enjoy this DCS F-18C HAG, but remember: *“Lose sight, lose the fight!”* May all your carrier cat shots end with a three-wire trap and no bolters! - **Backy 51**

## WAYPOINT ENTRY

MENU [TAC] -> MENU [SUPT] -> HSI

↑↓ TO CYCLE WYPT

SEQI -> DATA -> SEQUFC

## INSERT

INS (UFC) -> # (UFC) -> ENT (UFC)

## DELETE

DEL (UFC) -> # (UFC) -> ENT (UFC)

## LAT/LON ENTRY

UFC -> POSN (UFC)

N/S DD.MM.SS (UFC) -> ENT (UFC)

E/W DD.MM.SS (UFC) -> ENT (UFC)

ELEV (UFC) -> FEET (UFC)

#### (UFC) -> ENT (UFC)

## DESIGNATE TARGET

HSI->↑↓ TO CYCLE WYPT->WPDSG [TGT]

## NAV WAYPOINT TO TGT

DATA -> UFC

↑↓ TO CYCLE WYPT

ELEV (UFC) -> FEET (UFC) -> 0 (UFC)

ENT-> HSI ->WPDSG [TGT]

## ALTIMETER SETTINGS

RADAR ALT -> SET 40 CAT SHOT

RADAR ALT -> SET 370 CASE I APPROACH

HSI -> DATA -> A/C -> BARO

# (UFC) -> ENT (UFC)

## SET TOT FOR TGT WAYPOINT

HSI->↑↓ TO CYCLE WYPT->WPDSG [TGT]

DATA -> SEQUFC -> TOT (UFC)

HH.MM.SS (UFC) -> ENT (UFC)

## COMM1/COMM2 RADIO

PULL CH SEL KNOB TO SET ACTIVE

ROTATE CH SEL KNOB TO SET CH #

CHANNELS 1-20/GUARD/MANUAL

COMM1/2 CH SEL KNOB -> M (UFC)

CLR (UFC) -> AM (UFC)

243000 (UFC) -> ENT (UFC)

## RADIO VOICE XMIT FREQUENCY RANGE

VHF/AM/FM: 118.0 - 155.995 MHz GUARD 121.5

UHF/AM/FM: 225.0 - 399.975 MHz GUARD 243.0

VHF/FM: 30.0 - 87.995 MHz 156.0 - 173.995 MHz

## CHECKLISTS

MENU [TAC] -> MENU [SUPT] -> CHKLST

SET GROUNDSPD FOR TGT WAYPOINT

HSI->↑↓ TO CYCLE WYPT->WPDSG [TGT]

DATA -> SEQUFC -> GSPD (UFC)

540 (UFC) -> ENT (UFC)

Fly REQD GSPD to TOT

DISPLAY ZTOD ON HUD/DDI

HSI -> TIMEUFC -> ZTOD (UFC)

DISPLAY MM:SS CD ON HUD/DDI

Set CD Timer mm.ss <= 59.59

HSI -> TIMEUFC -> CD (UFC)

MM.SS (UFC) -> ENT (UFC) start/stop

DISPLAY 00:00 ET ON HUD/DDI

HSI -> TIMEUFC -> SET (UFC)

DATE(UFC)->MM.DD.YY(UFC)->ENT(UFC)

SET ZULU TIME ZONE ON IFEI

ZONE (IFEI) cycle time zone

SET BINGO FUEL ON IFEI

↑↓ (IFEI) to set fuel quantity in lbs

(Maximum entry = 20,000)

## ACTIVE PAUSE

LSHIFT + WINKEY + PAUSE/BREAK

## COLD AUTO START

WINKEY+HOME

## AUTO SHUTDOWN

WINKEY+END

## SUPERCARRIER NIGHT LIGHTING

COMM1/2 CH SEL KNOB -> M (UFC)

CLR (UFC) -> 127500 (UFC)

ENT (UFC) -> FM (UFC) -> \ (KYBD)

F5 ATC (KYBD)

Fx CVN 71 (KYBD) x = SHIP#

F1 INBOUND (KYBD)

## AOA INDEXER

V V V V V

O O O O O (FLASHING O = HOOK UP)

^ ^ ^ ^ ^

Slow SS ON SF Fast

## A/P IFF TCN ILS D/L BCN ON OFF

### UFC PUSHBUTTON PANEL

#### A/P MODE

A/P (UFC) -> ON/OFF (UFC)

:ATTH (Attitude Hold)

:HSEL (Heading Select)

HDG/CRS TOGGLE -> HOLD DN 3 Secs to SET

When HSEL/CSEL on (UFC) XXX ENT (UFC) or  
Slew to Set HDG before engaging :HSEL

:BALT (Hold current Barometric MSL Altitude)

:RALT (Hold current Radar AGL Altitude)

#### IFF MODE

IFF (UFC)->ON/OFF (UFC) (Modes 1-4A & C)

ADF/NDB/VOR MODE (:AM/:FM as req'd)

ADF 1/2 (UFC)-> COMM1/M->XXX.X ENT (UFC)-> HSI

#### TCN MODE

TCN (UFC)->ON/OFF(UFC)

:A/A (Air to Air)

:X (X Band) or :Y (Y Band)

RAD/DME (Upper Left HSI)

TIME TO STATION (Upper Left HSI)

TACAN I.D. (Upper Left HSI)

TACAN ICON (On HSI)

Note: TACAN CH 68/69 X/Y SHOULD NOT BE USED

BY LINK 16 EQUIPPED AIRCRAFT.

**Note:** TACAN Channels span 1-126. X or Y Band.

To find the frequency pair for CH 1-63 add 63 and for  
CH 64-126 subtract 63.

Example: CH 29X + 63 = 92X pairing.

#### ILS MODE (ICLS)

ILS (UFC) -> ON/OFF (UFC) # (UFC) -> ENT (UFC)

Set ICLS CH 1-20 and set ICLS BRC with CRS toggle

#### D/L MODE (LINK 16)

D/L (UFC) -> ON/OFF (UFC)

# 127 (UFC) -> ENT (UFC)

:AIC (ACLS?) INOP

:F/F1 (SECURE CH 1)

:F/F2 (SECURE CH 2)

:VOCA (VOICE CH A)

:VOCB (VOICE CH B)

#### BCN MODE (INOP)

## SUPERCARRIER CATAPULT LAUNCH C & D

\ -> F8 - GND CREW F2 - GND ELEC PWR F1 - ON

EXT PWR - RESET GND PWR 1,3,4 - B ON (for 3 secs)

COMM 1 CH SEL KNOB -> M (UFC) -> CLR (UFC)

127.500 (UFC) -> ENT (UFC) -> \ F5 ATC -> F1 CVNXX

F3 - REQUEST STARTUP -> F11 - PARENT MENU

\ -> F8 - GND CREW F2 - GND ELEC PWR F1 - OFF

PERFORM MAN ENGINE START or (WINKEY +HOME )

F8 - GND CREW F4 - WHEEL CHOCKS F2 - REMOVE

### TAXI TO ASSIGNED CATAPULT

WING FOLD - DOWN & LOCK HAND SIGNAL



EXTEND - LAUNCH BAR HAND SIGNALS



RETRACT - LAUNCH BAR HAND SIGNALS



THROTTLES - FULL POWER HAND SIGNAL



\ -> F8 - GND CREW F6 - SALUTE



### REQUEST LAUNCH AFTER TRAP

Hook - UP -> \ F11-> F8 GND CREW-> F7 Request Launch

### ELECTRONIC WARFARE (EW) ON HUD

MENU[SUPT]-> MENU[TAC]-> EW ->HUD

### MIDS LINK 16 POWER ON

D/L (UFC) -> ON/OFF (UFC)

MENU [TAC] -> MENU [SUPT] -> SA

TURN MPCD MAP OFF (OPTIONAL)

MENU [TAC] -> MENU [SUPT] -> HSI

MODE -> [MAP]

TURN MPCD MAP ON (OPTIONAL)

MENU [TAC] -> MENU [SUPT] -> HSI

MODE -> MAP

### SET BULLSEYE AIR2AIR WAYPOINT

HSI (MPCD) -> WYPT-> ↑ ↓ # (Cycle WYPT)

DATA -> A/A WP -> HSI

### MIDS LINK 16 OPERATION

A/A MODE -> ON

MST ARM -> As Required

D/L (UFC) -> ON/OFF (UFC)

MENU [TAC] -> MENU [SUPT] -> SA

## SITUATIONAL AWARENESS (SA) PAGE

### C2 - INOP

#### SENSR - SELECT SA DISPLAY OPTIONS

- > LINK4/FLIR/HARM/IFF - (WIP)
- > RWR - **ALL**/CRITICAL/LETHAL/CRITICAL
- > FRIEND - OFF/NO ID/RWR ID
- > UNK - UNKNOWN CONTACTS ON/OFF
- > SA - RETURN TO SA PAGE
- > OCS1/OCS2 - INOP
- > F/F - DISPLAY FRIENDLY FIGHTER DATA
- > PPLI - DISPLAY PRECISE PARTICIPANT LOCATION I.D.
- > SURV - DISPLAY C2 AWACS AIRCRAFT DATA (E-2/E-3)
- > MAP - TOGGLES MAP ON/OFF
- > DCLTR - DECLUTTER
- > SCL/X - CYCLES SCALE OF SA DISPLAY BETWEEN 5 TO 320 NM
- > 320 NM SCALE REQUIRES DCNTR SELECTED
- > MK2 - INOP
- > DCNTR - DECENTER TO EXPAND FOV FWD OF ACFT 3/9 LINE

- > DCNTR - ALLOWS 320 NM SCALE SELECTION
- > WYPT - WAYPOINT DATA ENABLED/ARROWS CYCLE WYPTS
- > WPDG - WYPT DESIGNATE TGT (PRESS TGT TO RETURN)
- > SEQ1 - DISPLAYS WAYPOINT ROUTE OF FLIGHT SEQUENCE
- > AUTO - AUTOMATIC WAYPOINT SEQUENCE ADVANCING ON
- > TXDSG/STEP/EXP - WIP
- > C:# - CHAFF QUANTITY REMAINING
- > F:# - FLARE QUANTITY REMAINING
- > O1/O2: # - INOP

#### PLID - SELECT PILOT I.D. OPTIONS

- > I.D. RDR CONTACT STATUS WITH TDC OVER TGT
- > **FRND**/**HOS**/**UNK** (Friendly/Hostile/Unknown)

## GROUND RADAR OPERATION

A/G - **ON** or **SURF** IF ALREADY IN A2A RDR MODE

RNG - **↑↓** 5/10/20/40/80/160 AZM - 20/45/90/120

[FRZ] - FREEZE DSPLY **RSET** - RESET TO DEFAULT

[SIL] - SILENT MODE FOR EMCON 3/4 WILL [FRZ] ALSO

[DATA] - [DCLTR] **GN** - **↑↓** SET TO 2 & RDR TILT TO - 3-5°

**PEN/FAN** - PENCIL BEAM & NARROW AZM DIRECTS MORE ENERGY

SCS - RIGHT SOI - **◇** USE TDC TO SLEW RDR CROSSHAIRS

DEPRESS TDC TO RDR DESIGNATE GND TGT

**HUD** WILL DSPLY STEERING **◇** CUE

### DCS LINK 16

#### SYMBOL GOUGE



#### FRIENDLY



#### UNKNOWN



#### HOSTILE



#### SAM THREAT



### A2A BULLSEYE

#### TDC -> BE A/A WYPT



#### RDR BRACKET



#### MACH # / ALT

#### SA BRACKET



#### A2A RDR EMITTER BEARING



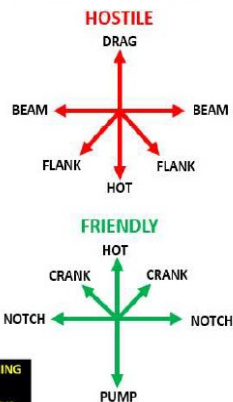
HAFU - HOSTILE AMBIGUOUS FRIENDLY UNKNOWN

PPLI - PRECISE PARTICIPANT LOCATION INFORMATION (Cargo/Bomber/Tanker)

SURV - SURVEILLANCE (AWACS - E3/E2)

F/F - FRIENDLY FIGHTERS (F14/F15/F16/F18) [\*A10/AV8] \*SADL

## AWACS BRAA CALL





## JDAM/JSOW NON-TGP PP MODE

OBTAIN TGT COORDS IN DD.MM.SS.SS

A/G - **ON** -> MASTER ARM - **ON**

LDDI - **STORES** -> RDDI - **HSI** -> **SEQ1**

LDDI - **J-82** -> **EFUZ** -> **INST**

JDAM DSPLY -> **REL TYPE** -> **MAN**

VERIFY **MODE PP** - **PP#**

**QTY** -> **STA#** -> **RTN** -> **MSN** -> **TGT UFC** ->

**POS** -> **LAT** -> **NDDMMSS** -> **ENT** -> **SS** ->

**ENT** - VERIFY **LAT**

**TGT UFC** -> **POS** -> **LON** -> **WDDMMSS** ->

**ENT** -> **SS** -> **ENT** - VERIFY **LON**

**TGT UFC** -> **ELEV** -> **FEET** -> **XXXX** -> **ENT** -  
VERIFY **ELEV**

**TGT UFC** -> **TERM** -> **HDG** -> **XXX** -> **ENT**

**TGT UFC** -> **TERM** -> **ANG/HT** -> **XX** -> **ENT**

**TGT UFC** -> **TERM** -> **VEL** -> **XXX** -> **ENT**

VERIFY **HDG/ANG/VEL**-> **RETURN** -> **MSN**

(VERIFY **PP# STA#** WITH SELECTED

**STORES PAGE STA#** AND USE **STEP** TO

CHANGE **STA#** TO MATCH **MSN PAGE**

**STA#** IF REQ'D) -> **RETURN**

STEER TO TARGET **◇** IN **HUD**

VERIFY COUNTDOWN **TMR** IN **HUD** IS DECREASING

WHEN **TMR** IS IN **RNG** HOLD **PICKLE** UNTIL WPN REL

**F6** TO VIEW **BDA** IF DESIRED -> ENTER HOLDING TO

REPROGRAM AND REATTACK WITH ADDL WPNS

## JDAM/JSOW STEP PROCESS

JDAM DSPLY -> **QTY** -> **2** (or more) ->

**RTN** (**STEP** button is now displayed)

## WALLEYE W/O DATALINK

A/G - **ON** -> MASTER ARM - **ON**

WEDL [WEDL] [INST] SCS - LEFT SOI **◇** -> **UNCAGED**

SLEW **TDC** - **HUD** - **WE** - **WPN REL** - **PICKLE**

## WALLEYE W/ DATALINK

WEDL [WEDL] [INST] SCS - LEFT SOI **◇** -> **UNCAGED**

SLEW **TDC** - **[DL13]** - **WPN** - **WEDL [INST]** IS **CH#** = **STA#**?

**[UFC]** - **:CHNL** - **STA# ENT** CONFIRM LIVE VIDEO

**WPN REL** - **PICKLE** SLEW **TDC** TO REFINE AS REQ'D

## JDAM/JSOW TGP TOO MODE

ENGAGE A/P BALT AND ATC AS REQ'D

**SNSR PANEL** -> **FLIR** - **ON** -> **RDDI** - **[TAC]** -> **FLIR**

**LDDI** - **STORES** -> **[J-82]** -> **MODE**-> **TOO** ->

**EFUZ** -> **INST** -> **JDAM DSPLY**-> **MSN** ->

**SCS** -> **RIGHT** -> **VERIFY RDDI SOI ◇**

**FOV** -> **WIDE/NAR** -> **CAMERA** -> **CCD/FLIR** ->

**WHT/BLK** -> **TDC** - **SLEW TO TGT** -> **OPR ATRK** ->

**SCS** -> **RIGHT** -> **OPR PTRK** -> **VERIFY [TGT] BOXED** ->

**TDC** -> **DEPRESS** -> **VERIFY COORDS/TMR HUD**

WHEN **HUD COUNTDOWN TIMER** EXPIRES **PICKLE**

## LGB TGP AUTO MODE

**LDDI** - **STORES** -> **[83LG]** -> **MODE**-> **AUTO** ->

**MFUZ**->**OFF**->**EFUZ**->**INST**->**CODE**->**1688**>**ENT(UFC)**

**SNSR PANEL** -> **LTD/R** -> **ARM**-> **RDDI** -> **[TRIG]** ->

**[UFC]** -> **UFC** -> **LTDC** -> **1688** -> **ENT**

**TDC** - **SLEW TO TGT**-> **TDC** - **DEPRESS** ->**AUTO IN HUD**

**PICKLE** -> **TRIGGER** - **HOLD** -> **LTD/R** ON **RDDI**

## LMAV TGP LASER MODE

**LDDI** - **STORES** -> **[MAV]** ->

**UFC**->**CODE**->**1688**>**ENT(UFC)** ->

**MAV** -> **UNCAGE**-> **TDC** ->

**TDC** - **SLEW TO TGT**-> **[TRIG]** -> **TDC** - **DEPRESS** ->

**TMR IN HUD** -> **TRIGGER** - **IN TO LAZE**-> **WPN REL**

## LASER SPOT SEARCH (LSS) & JTAC LAZING

**LDDI** - **STORES** -> **[RE]** -> **MODE**-> **CCIP**->

**MFUZ**->**VT**->**EFUZ**->**OFF**->**HT**->**1500**>**ENT**->

**[UFC]**->**QTY**->**2**->**ENT (UFC)**->

**TDC** - **SLEW TO TGT**-> **TDC** - **DEPRESS** ->

**SNSR PANEL**-> **LST/NFLR** -> **ON**-> **RDDI**-> **LSS**-> **1688**

**CALL JTAC**-> **CALL FOR LASER ON**-> **RDDI**-> **[LSS]**->

**TDC** - **DEPRESS** ->**AUTO RELEASE**

## TGP IR MARKER MODE

**LDDI** - **STORES** -> **[83LG]** -> **MODE**-> **AUTO** ->

**MFUZ**->**OFF**->**EFUZ**->**INST**->**CODE**->**1688**>**ENT(UFC)**

**SNSR PANEL** -> **LTD/R** -> **ARM**-> **RDDI** -> **[TRIG]** ->

**[MARK]**->**[UFC]** -> **UFC** -> **LTDC** -> **1688** -> **ENT**

**TDC** - **SLEW TO TGT**-> **TDC** - **DEPRESS** ->**AUTO IN HUD**

**PICKLE** -> **TRIGGER** - **HOLD** -> **LTD/R** ON **RDDI**

## SLAM DATALINK TOO MODE

TGT COORDS FROM WAYPOINTS

A/G - **ON** -> MASTER ARM - **ON**

LDDI - **STORES** -> **[SLAM]** -> **[DL13]** -> **[WEP]**

**SLAM** -> **MODE TOO** -> **FLT (HIGH, MED, LOW)**

**EFUZ** (**INST**) -> **SLAM DSPLY** -> **[UFC]**

: **DIST** -> **15** -> **ENT** (SEEKER ON XX NM FROM TGT)

**REL TYPE** -> **MAN** -> **MSN**

**RDDI** - **HSI** -> **[WYPT]** -> **↑** (TO DESIRED WYPT #)

**WPDSG** -> **[TGT]** -> **SCL 20/40/80** AS REQ'D

**TGT UFC** -> **POS** -> **LON** -> **WDDMMSS** ->

**CHECK HUD TMR** - (TIME TO MAX RANGE)

**CHECK HUD DIST TO TGT** - VERIFY **IN RNG**

**RETURN** - CHECK **TTS** (TIME TO SEEKER)

**CHECK [SLAM] RDY** - WPN REL - **PICKLE**

**[SLAM]** -> **SLAM** -> **VIDEO ON**

**RDDI** - **STORES** -> **CHECK TTS** COUNTDOWN

**SCS** - **LEFT** -> **LDDI** - **SOI 0**

**VERIFY CH#** MATCHES **STA#** OF SELECTED SLAM

(OPTN) **A ANT** (AFT ANTENNA IF HDG AWAY FROM TGT)

**AT TTS = 0** CONFIRM SEEKER VIDEO ON

**NOTE:** DO NOT SLEW TDC UNTIL TGT VISIBLE

(OPTN) **[FOV]** (ZOOM VIDEO FIELD OF VIEW)

**AT TERMINAL STAGE** SEEKER LOCKS TO TGT

**REFINE TDC CROSSHAIRS** FOR IMPROVED ACCURACY

## HARM TOO MODE

A/G - **ON** -> MASTER ARM - **ON**

**RDDI** -> **EW** -> **[ALE-47]**

**LDDI** -> **[TAC]** -> **HARM DSPLY** -> **[TOO]**

**[EMITTER]** (CURRENT TGT) -> **SCS** - **LEFT** -> **LDDI** - **SOI 0**

**CAGE/UNCAGE** -> **H-OFF [HARM] RDY**

**[SCAN]** (DETECTS THREATS)

**CYCLE TGTS AS REQ'D** -> **PICKLE**

## HARPOON BOL MODE

A/G - **ON** -> MASTER ARM - **ON**

**[HPD]** -> **MODE BOL** -> **FLT (HIGH, MED, LOW)**

**TERM (SKIM, POP)**

**[UFC]** -> **:SRCH** (XX NM B4 SEEKER ON) -> **XX ENT** ->

**:DSTR** (XX NM B4 DESTRUCT) -> **XX ENT** ->

**:BRG** (DEGREES ATTACK AXIS)-> **XXX ENT**

**[HSI]** -> CONFIRM **SRCH** AND **DSTR** DISTANCES

## HARPOON FIXED POINT MODE WPN REL

**[FXP]** -> SEARCHES BETWEEN **SRCH** & **DSTR** DISTANCE

**LDDI** - CHECK **[HPD] RDY** ->

CONFIRM **HUD** -> **IN ZONE** & **HP BOL** -> **PICKLE**

## HARPOON TURN POINT MODE WPN REL

**[HPTP]** -> HPN FLIES TO NAV **WYPT** THEN TURNS TO

**RDDI** -> **[WYPT]** -> **↑** (TO DESIRED **WYPT** #) **[HPTP]**

**LDDI** - CHECK **[HPD] RDY** ->

CONFIRM **HUD** -> **IN ZONE** & **HP BOL** -> **PICKLE**