02

JAYNZ SHIPS OF STAR FLEET

TERRANLGO LANGUAGE EDITION

AUTHORIZED PERSONNEL ONLY
SECURITY LEVEL TWO

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

JAYNZ' GUIDE
FEDERATION STAR FLEET SERIES

RS: 480372-2

TERRALANGLO LANGUAGE EDITION

UPDATED AND APPROVED FOR TERRAN YEAR 2272

JAYNZ

FEDERATION STAR FLEET SERIES
COMPILATION – 002

JAYNZ'S GUIDE SERIES

THE JAYNZ'S GUIDE SERIES IS A HARD FORMAT COMPILATION OF FEDERATION TECHNICAL ORDERS, ARTICLES, AND OTHER WORKS ISSED BY STAR FLEET COMMAND FOR USE IN THEIR TRAINING PROGRAMS. THE ARTICLES SO PUBLISHED IN JAYNZ'S GUIDES IS FOR FAMILIARIZATION PURPOSES FOR TRAINEES, INSTRUCTORS, AND ENTHUSIASTS WITH APPROPRIATE SECURITY CLEARANCE.

ATTENTION: CERTAIN MATERIAL CONTAINED HEREIN HAS BEEN CLASSIFIED AS SECURITY LEVEL TWO BY STAR FLEET COMMAND AND THE BUREAU OF INTELLIGENCE. UNAUTHRIZED USE OF SUCH MATERIAL IS PUNISHABLE BY COURT MARTIAL, IMPRISONMENT, OR OTHER MEASURES DPENDING ON PLANETARY LAWS. STIPULATED BY TREATY.

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DESTROYER CLASS

LARSON CLASS STARSHIPS

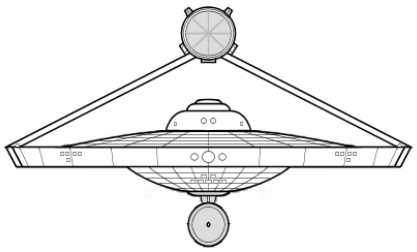
GENERAL INFORMATION

THE *LARSON* WAS AN EARLIER *CONSTITUTION*-CLASS STYLE OF DESIGN MEANT TO SUPPLEMENT THE MILITARY NEEDS OF STARFLEET. AS WITH THE HERMES, IT WAS DECIDED TO GIVE THE SHIP ONLY ONE ENGINE TO SAVE ON COST AS WELL AS KEEP THE SHIP 'LIGHT'. A SECOND ENGINE WASN'T FELT NEEDED FOR A SHIP WITHOUT A SECONDARY HULL, DESPITE BEING VERY HEAVILY ARMED FOR HER SIZE.

LIKE THE *HERMES* AND *SALADIN*, THE *LARSON* SUFFERS FROM INSTABILITY PROBLEMS AT HIGH-END WARP SPEEDS. SECONDLY, THE LONE WARP NACELLE WAS POWER-APLENTY FOR THE OLDER LASER BATTERIES AND SHIELDS, BUT IS A BIT WEAK TO POWER MORE MODERN PHASERS. DESPITE THESE WEAKNESSES, HOWEVER, THE *LARSON* IS A POWERFUL FIGHTER IN THE HANDS OF A SKILLED COMMANDER AND ENGINEER.

.SHIPS OF THE CLASS HAVE BEEN PRESENT AT MOST MAJOR MILITARY ENCOUNTERS SINCE THEIR LAUNCH IN 2248. IN PARTICULAR, THEY GAINED NOTORIETY IN ALL BUT ERADICATING AN TZENKETHI RAIDING FLEET IN SHORT ORDER. THE TZENKETHI HAVE SINCE RE-EVALUATED THEIR STRATEGIES IN THE WAKE OF THEIR DEFEATS.

LARSON CLASS - BOW VIEW



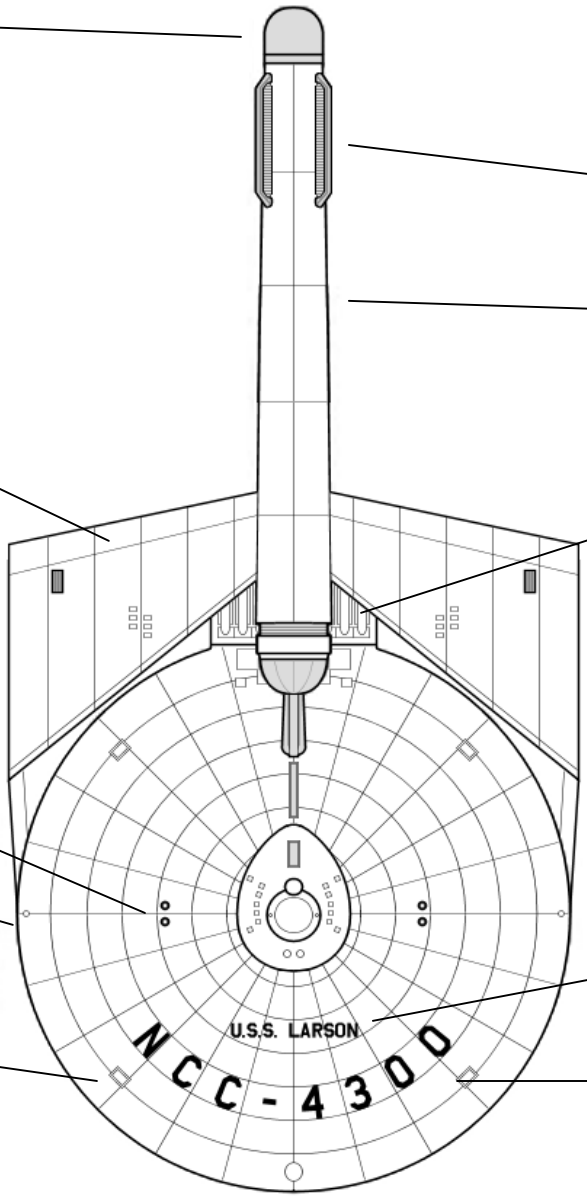
CONSTRUCTION DETAILS

CHIEF OF DESIGN	DANA KNUTSON
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	JULY 2248, SD 1695
VESSELS CONSTRUCTED	16

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 [JANURARY 2272]
USS LARSON	NCC-4300	CLASS SHIP, ACTIVE / STARFLEET COMMAND
USS MIDWAY	NCC-4301	DECOMMISSIONED
USS TANNENBURG	NCC-4302	DECOMMISSIONED
USS TRAFALGAR	NCC-4303	DESTROYED
USS THELENTH	NCC-4304	ACTIVE / STARFLEET COMMAND
USS WATERLOO	NCC-4305	ACTIVE / STARFLEET COMMAND
USS BORODINO	NCC-4306	ACTIVE / STARFLEET COMMAND
USS AUSTERLITZ	NCC-4307	LOST IN ORION CONFLICT
USS NORMANDY	NCC-4308	ACTIVE / STARFLEET COMMAND
USS MARATHON	NCC-4309	ACTIVE / STARFLEET COMMAND
USS PHARSALUS	NCC-4310	ACTIVE / STARFLEET COMMAND
USS CRECY	NCC-4311	MISSING IN ACTION
USS POITIERS	NCC-4312	ACTIVE / STARFLEET COMMAND
USS AGINCOURT	NCC-4313	ACTIVE / STARFLEET COMMAND
USS BLENHEIM	NCC-4314	ACTIVE / STARFLEET COMMAND
USS TORGAU	NCC-4315	ACTIVE / STARFLEET COMMAND
USS EYLAU	NCC-4316	ACTIVE / STARFLEET COMMAND
USS LEYTE	NCC-4317	ACTIVE / STARFLEET COMMAND
USS LEIPZIG	NCC-4318	ACTIVE / STARFLEET COMMAND
USS BEUNA VISTA	NCC-4319	ACTIVE / STARFLEET COMMAND
USS GARBO	NCC-4320	DESTROYED
USS CATINIAN	NCC-4321	ACTIVE / STARFLEET COMMAND
USS GALLIPOLI	NCC-4322	ACTIVE / STARFLEET COMMAND
USS JUTLAND	NCC-4323	ACTIVE / STARFLEET COMMAND
USS ANZIO	NCC-4324	ACTIVE / STARFLEET COMMAND

DESTROYER CLASS

LARSON CLASS STARSHIPS – DORSAL VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
DESTROYER [DD] / LARSON CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	DANA KNUTSON
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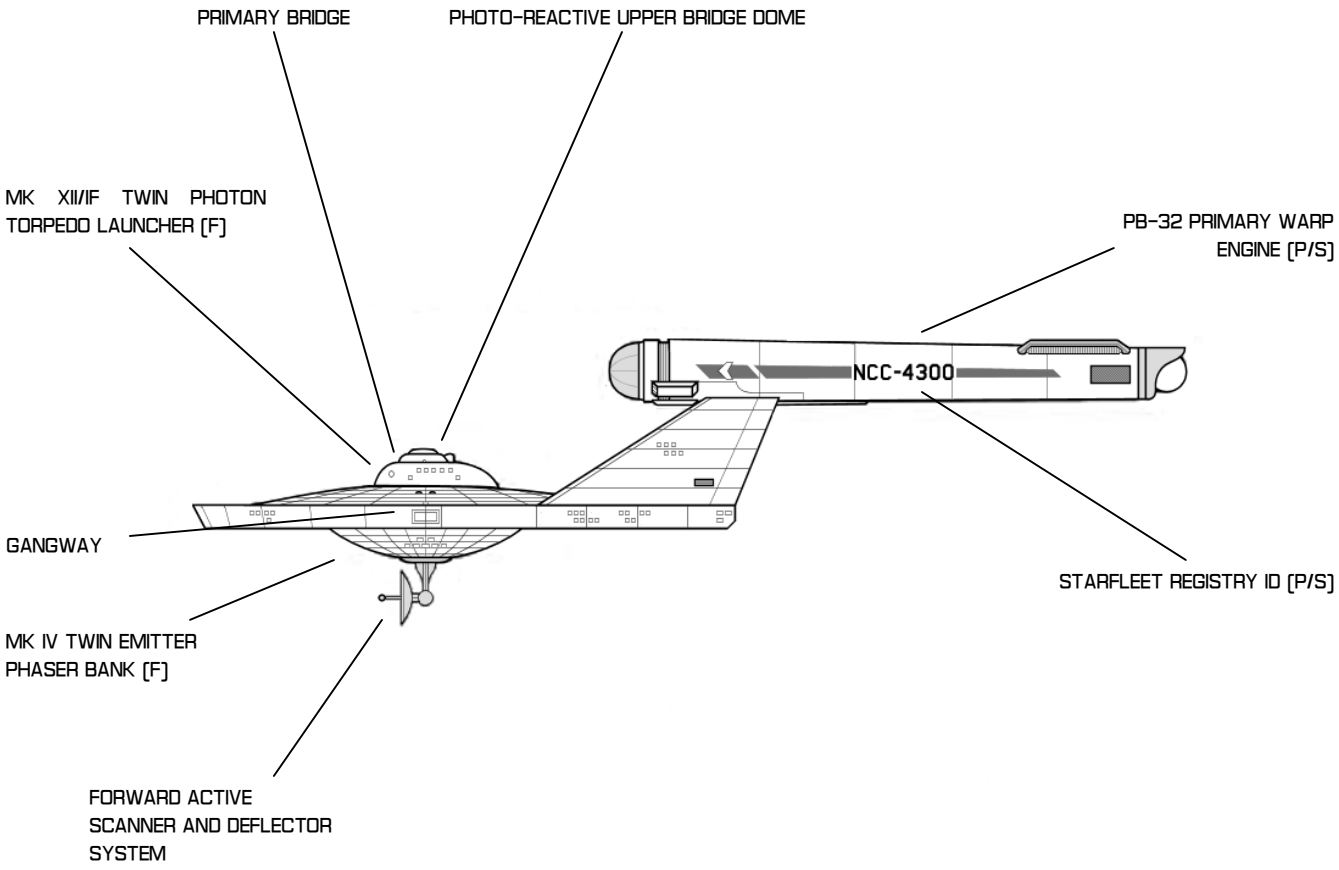
VERSION RELEASE	SD 7411.27

DESTROYER CLASS

LARSON CLASS STARSHIPS – PORT VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
DESTROYER [DD] / LARSON CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	DANA KNUTSON
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

DESTROYER CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	43
CREW	187

DIMENSIONS	
DEADWEIGHT TONNAGE	115,000 MT
LENGTH	271M
BREADTH	132M
HEIGHT	84M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F, F/P, F/S)
PHOTON TORPEDOES	MK XII/IF TWIN LAUNCHER (F)
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX HVY SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III HVY SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	PATROL COMBATANT, DD
MAXIMUM OPERATING RANGE	9 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE	FORWARD (SAUCER)	BRIDGE
DECK TWO	FORWARD (SAUCER)	SCIENCE LABS
DECK THREE	FORWARD (SAUCER)	PHOTON CONTROL,
DECK FOUR	FORWARD (SAUCER)	OFFICER'S QUARTERS
DECK FIVE	FORWARD (SAUCER)	OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (F/P, F/S)
DECK ONE	AFT (PYLON)	STORAGE, EMERGENCY PB-32 ACCESS
DECK TWO	AFT (PYLON)	PLASMA FLUSH, INTERMIX AND WARP CONTROL ROOMS
DECK THREE	AFT (PYLON)	AUXILLARY MACHINERY
DECK FOUR	AFT (PYLON)	AUXILLARY MACHINERY,
DECK FIVE	AFT (PYLON)	EMEGENCY SEAL AND SEPERATION, STORAGE
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT		TRAVEL PODS, PERSONNEL GANGWAY ACCESS, COMPUTER ARRAY
DECK NINE		FABRICATION FACILITIES, STORAGE
DECK TEN		RECREATION DECKS, STORAGE
DECK ELEVEN		PHASER COTNROL, PHASER BANK (F), SENSOR AND SCANNER CONTROL

BATTLESHIP CLASS

DIRECTORATE CLASS STARSHIPS

GENERAL INFORMATION

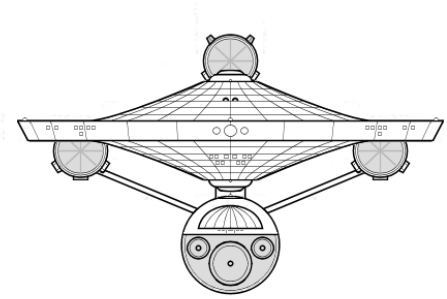
THE TERM 'DREADNOUGHT' NEVER SAT WELL WITH MANY MEMBERS OF THE FEDERATION COUNCIL, AND STAR FLEET FOUND ITSELF CONSTANTLY AT ODDS IN ATTEMPTING TO JUSTIFY AND MAINTAIN A LINE OF CRAFT THAT MANY IN THE COUNCIL FELT WAS 'TOO POWERFUL' AND 'TOO MILITARISTIC'.

WHEN A VARIANT ARRANGEMENT OF THE THIRD PB-32 WAS PROPOSED TO THE *USS DIRECTORATE*, STAR FLEET DECIDED TO ALTER THE FUNCTION OF THE CLASS JUST SLIGHTLY, 'DOWNGRADING' THE DIRECTORATE TO A REGULAR-SERIES BATTLESHIP. ODDLY ENOUGH, DESPITE THE NEAR IDENTICAL ARRANGEMENT AND CAPABILITIES OF THE VESSEL, STAR FLEET WOUND UP HAVING A MUCH EASIER TIME OF THE APPROVAL PROCESS.

THE 'RE-CLASSIFICATION' OF THE HANDFUL OF SHIPS OF THE *DIRECTORATE* VARIANT WOULD, ACCORDING TO THE REGISTRY, CREATE A NEW 'BATTESHIP' CLASS. FUNCTIONALLY, HOWEVER, THE DIRECTORATE IS NEARLY IDENTICAL TO THE EXISTING *FEDERATION* CLASS.

THE DIRECTORATE'S VARIANT ENGINE WAS HOPED TO ALLEVIATE SOME OF THE BALANCE ISSUES FOUND IN THE PB-32 'ODD ENGINE' DESIGNS. UNFORTUNATELY, AS WITH THE *SALADIN* [WHICH ALREADY HAD THE ROTATED ALIGNMENT], THE BALANCE ISSUES CHANGED, BUT WENT UNSOLVED, KEEPING THE *DIRECTORATE* FROM REALIZING HER THEORHETICAL HIGHEST SPEEDS.

DIRECTORATE CLASS - BOW VIEW



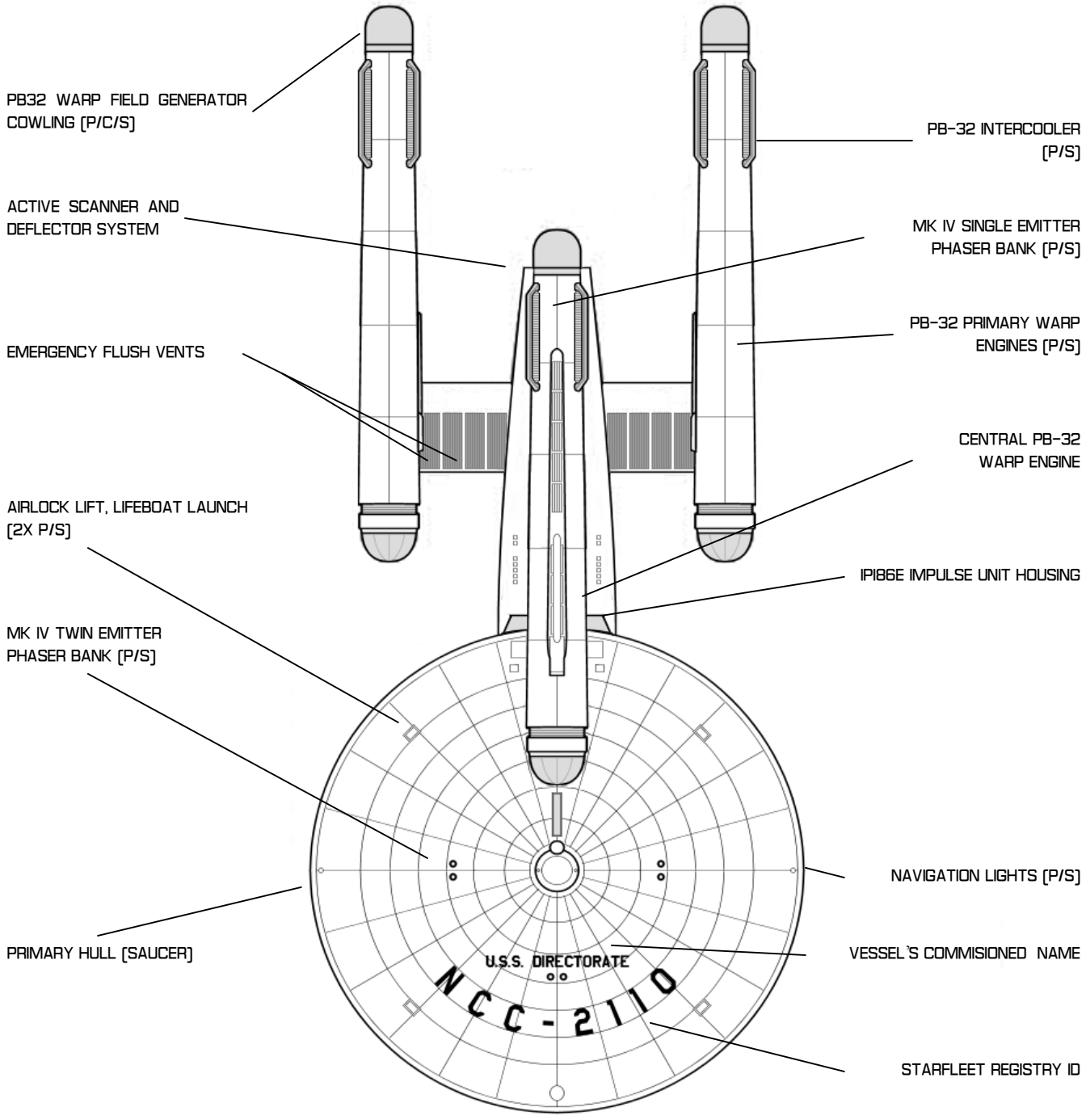
CONSTRUCTION DETAILS

CHIEF OF DESIGN	FRANZ JOSEPH
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	MARCH 2269, SD 5920
VESSELS CONSTRUCTED	3

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 [JANURARY 2272]
USS DIRECTORATE	NCC-2110	CLASS SHIP; ACTIVE / STARFLEET COMMAND
USS ORGANIZATION	NCC-2111	ACTIVE / STARFLEET COMMAND
USS STAR UNION	NCC-2112	ACTIVE / STARFLEET COMMAND
USS DOMINION	NCC-2115	ACTIVE / STARFLEET COMMAND

BATTLESHIP CLASS

DIRECTORATE CLASS STARSHIPS – DORSAL VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
BATTLESHIP [BB] / DIRECTORATE CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	FRANZ JOSEPH
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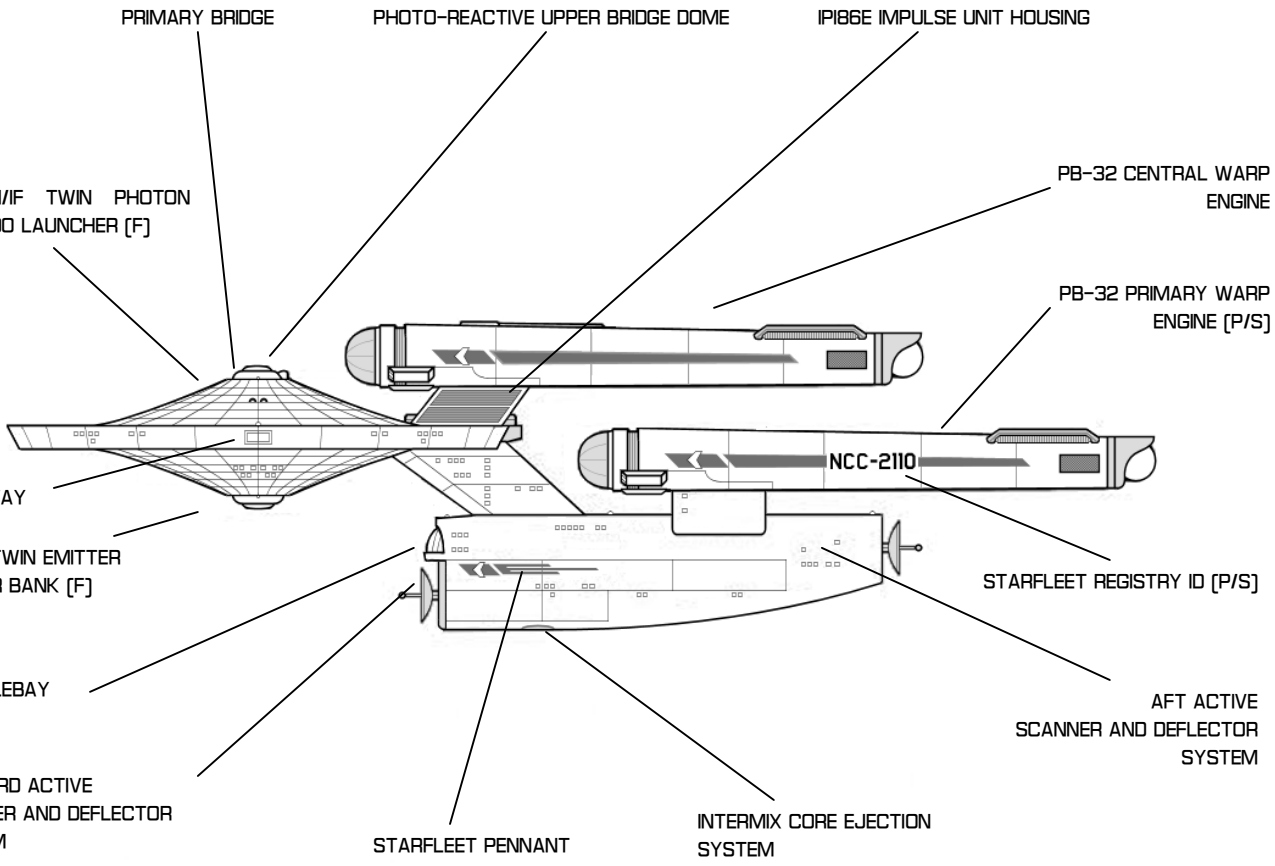
BATTLESHIP CLASS

DIRECTORATE CLASS STARSHIPS – PORT VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
BATTLESHIP (BB) / DIRECTORATE CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	FRANZ JOSEPH
AUTHENTICATION APPROVAL	SD 2401.55
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BATTLESHIP CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	43
CREW	387

DIMENSIONS	
DEADWEIGHT TONNAGE	285,000 MT
LENGTH	316M
BREADTH	140M
HEIGHT	87M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F, F/P, F/S)
	MK IV SINGLE EMITTER (A X2, P/S V)
PHOTON TORPEDOES	MK XII/IF TWIN LAUNCHER (F)
	MK XII/IF SINGLE LAUNCHER (A)
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TRIPLE (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2
TYPE F SHUTTLECRAFT	4
TYPE HF SHUTTLECRAFT	2

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX HVY SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III HVY SENSORY SYSTEM
TRANSPORTERS	5 STD / 4 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	EXPLORATION/PATROL, CA
MAXIMUM OPERATING RANGE	9 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		GENERAL FACILITIES, SCIENCE LABS
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (F/P, F/S)
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT	FORWARD (SAUCER)	TRAVEL PODS, PERSONNEL GANGWAY ACCESS, COMPUTER ARRAY
DECK NINE	FORWARD (SAUCER)	MEDICAL SECTION, CREW QUARTERS, AUX ENGINEEERING
DECK TEN	FORWARD (SAUCER)	CARGO MAINTENANCE FACILITIES
DECK ELEVEN	FORWARD (SAUCER)	FABRICATION FACILITIES, STORAGE
DECK TWELVE	FORWARD (SAUCER)	RECREATION DECKS, STORAGE
DECK THIRTEEN	FORWARD (SAUCER)	PHASER COTNROL, PHASER BANK (F)
DECK FORTEEN	FORWARD (SAUCER)	SENSOR AND SCANNER CONTROL
DECK EIGHT	DORSAL (PYLON)	EMEGENCY SEAL AND SEPERATION, STORAGE
DECK NINE	DORSAL (PYLON)	AUXILLARY MACHINERY,
DECK TEN	DORSAL (PYLON)	AUXILLARY MACHINERY, REAR OBSERVATION DECK
DECK ELEVEN THRU DECK FIFTEEN	DORSAL (PYLON)	STORAGE, REAR OBSERVATION DECK
DECK SIXTEEN		FORWARD SHUTTLEBAY, SHUTTLE OBERSAVATION
DECK SEVENTEEN		FORWARD SHUTTLEBAY, MAIN ENGINEERING, PHASER BANK (A)
DECK EIGHTEEN		FORWARD SHUTTLEBAY, MEDICAL SECTION, COMPUTERS
DECK NINETEEN		SHUTTLE MAINTEINANCE, GYMNASIUM, LOUNGE
DECK TWENTY		SENSOR, SCANNER, AND DEFLECTION CONTROL, SHUTTLECRAFT SUPPLIES
DECK TWENTY-ONE		RECREATION AREA
DECK TWENTY-TWO		CREW QUARTERS
DECK TWENTY-THREE		CREW QUARTERS
DECK TWENTY-FOUR		FABRICATION FACILITIES, FOOD STORES, WASTE RETREATMENT
DECK TWENTY-FIVE		STORAGE, CARGO HOLDS
DECK TWENTY-SIX		STORAGE, CARGO HOLDS, VENTRAL PHASER CONTROL, PHASER BANK (V)

EXPLORATION CRUISER CLASS

ACHERNAR CLASS STARSHIPS

GENERAL INFORMATION

THE DESIGN FOR THE *ACHERNAR* IS, OBVIOUS, A *CONSTITUTION* CLASS VARIANT, DESIGNED PRIMARILY TO EXTEND THE PREVIOUS DESIGN'S EXPLORATION AND RESEARCH CAPABLITIES AT THE EXPENSE OF SOME OF ITS COMBAT ABILTITIES AND OVERALL MASS. AS A RESULT, THE *ACHENRNAR* RETAINS MOST OF HER PARENT'S DESIGN, WITH ONLY SOME MODIFICATIONS MADE TO THE SECONDARY HULL.

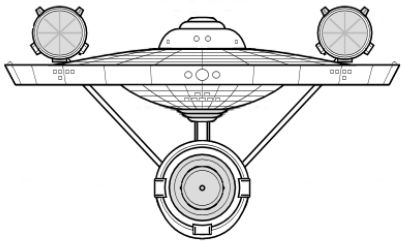
THE MAIN DIFFERENCE BETWEEN THE CLASSES, HOWEVER, IS POLITICAL. THE *ACHENAR* WAS AUTHORIZED WITH THE INTENTION THAT THEY BE CALLED PRIMARILY FOR EXPLORATION AND RESEARCH MISSIONS WITHIN THE FEDERATION FRONTIER, WITH MILITARY MISSIONS AT DRAMATICALLY REDUCED PRIORITY.

AT LEAST, THAT WAS THE THEORY. IN PRACTICE, THE MISSION PROFILES BETWEEN THE *CONSTITUTION* AND *ACHENAR* CLASS VESSELS OVERLAP HEAVILY AND OFTEN SWAP ASSIGNMENTS DEPENDING ON WHICH SHIP OF EITHER CLASS IS AVAILABLE.

WITH THIS IN MIND, CREWS AND EQUIPMENT ON BOARD ACHERNAR CLASSES ARE SLIGHTLY HEAVIER IN THE 'SCIENTIFIC' FIELDS, AND LESS IN SECURITY. THESE AREN'T TRUE TRAITS OF THE CLASS ITSELF, BUT THE POLITICS INVOLVED WITHIN THE FEDERATION.

AS OF 2272, HOWEVER, THE DIFFERENCE IS BEGINNING TO BE RENDERED MOOT, AS SHIPS OF THE ACHENAR CLASS ARE UPGRADED TO CONSTITUTION (REFIT) SPECIFICATIONS.

ACHENAR CLASS – BOW VIEW



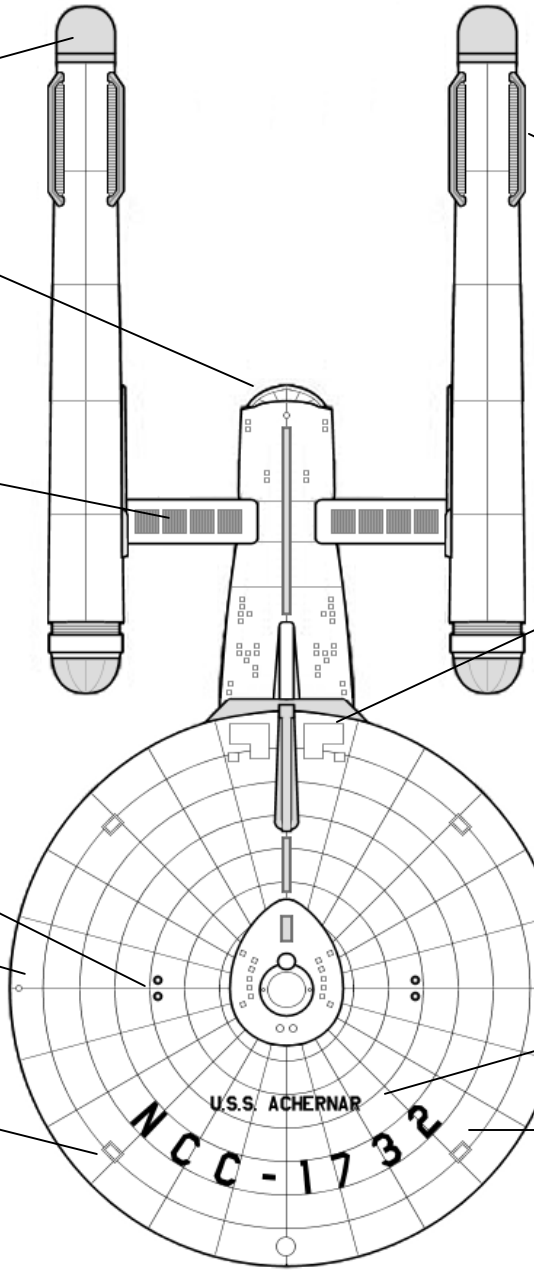
CONSTRUCTION DETAILS

CHIEF OF DESIGN	FRANZ JOSEPH
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	MAY 2258, SD 1313
VESSELS CONSTRUCTED	13

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 (JANURARY 2272)
USS ACHERNAR	NCC-1732	CLASS SHIP, ACTIVE / STARFLEET COMMAND
USS SOL	NCC-1733	INACTIVE/ UNDERGOING RECONSTRUCTION TO CONSTITUTION (REFIT) SPEC.
USS JUPITER	NCC-1734	INACTIVE/ UNDERGOING RECONSTRUCTION TO CONSTITUTION (REFIT) SPEC.
USS RIGIL KENTARUS	NCC-1735	DECOMISSIONED
USS QUINDAR	NCC-1736	INACTIVE/ UNDERGOING RECONSTRUCTION TO CONSTITUTION (REFIT) SPEC.
USS PROXIMA	NCC-1737	INACTIVE/ UNDERGOING RECONSTRUCTION TO CONSTITUTION (REFIT) SPEC.
USS ANDROCUS	NCC-1738	ACTIVE / STARFLEET COMMAND
USS ASTRAD	NCC-1739	ACTIVE / STARFLEET COMMAND
USS MONDOLOY	NCC-1740	ACTIVE / STARFLEET COMMAND
USS ALFR	NCC-1741	ACTIVE / STARFLEET COMMAND
USS THELONII	NCC-1742	DESTROYED
USS XANTHIII	NCC-1743	ACTIVE / STARFLEET COMMAND
USS SIRIUS	NCC-1744	ACTIVE / STARFLEET COMMAND

EXPLORATION CRUISER CLASS

ACHERNAR CLASS STARSHIPS



PB32 WARP FIELD GENERATOR COWLING [P/S]

SHUTTLEBAY

EMERGENCY FLUSH VENTS [P/S]

MK IV TWIN EMITTER PHASER BANK [P/S]

PRIMARY HULL [SAUCER]

AIRLOCK LIFT, LIFEBOAT LAUNCH [2X P/S]

PB-32 INTERCOOLER [P/S]

PB-32 PRIMARY WARP ENGINES [P/S]

IPI86E IMPULSE UNIT HOUSING

NAVIGATION LIGHTS [P/S]

VESSEL'S COMMISIONED NAME

STARFLEET REGISTRY ID

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
EXP. CRUISER [EX] / ACHERNAR CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	FRANZ JOSEPH
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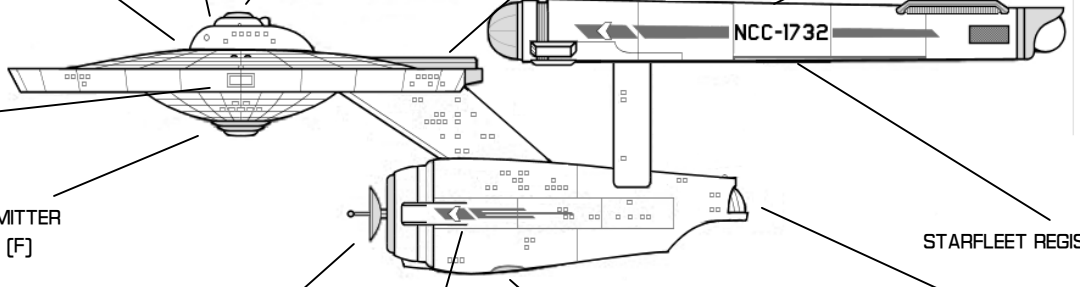
EXPLORATION CRUISER CLASS

ACHERNAR CLASS STARSHIPS



PRIMARY BRIDGE

PHOTO-REACTIVE UPPER BRIDGE DOME

IPI86E IMPULSE UNIT HOUSING

MK XII/IF TWIN PHOTON TORPEDO LAUNCHER [F]

PB-32 PRIMARY WARP ENGINE [P/S]

GANGWAY

MK IV TWIN EMITTER PHASER BANK [F]

STARFLEET REGISTRY ID [P/S]

SHUTTLEBAY

FORWARD ACTIVE SCANNER AND DEFLECTOR SYSTEM

STARFLEET PENNANT

INTERMIX CORE EJECTION SYSTEM

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
EXP. CRUISER [EX] / ACHERNAR CLASS

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EXPLORATION CRUISER CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	41
CREW	357

DIMENSIONS	
DEADWEIGHT TONNAGE	185,000 MT
LENGTH	287M
BREADTH	127M
HEIGHT	75M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F, F/P, F/S)
PHOTON TORPEDOES	MK XII/IF TWIN LAUNCHER (F)
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX ADV SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III ADV SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	EXPLORATION, EC
MAXIMUM OPERATING RANGE	9 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		PHOTON CONTROL,
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (F/P, F/S)
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT	FORWARD (SAUCER)	TRAVEL PODS, PERSONNEL GANGWAY ACCESS, COMPUTER ARRAY
DECK NINE	FORWARD (SAUCER)	FABRICATION FACILITIES, STORAGE
DECK TEN	FORWARD (SAUCER)	RECREATION DECKS, STORAGE
DECK ELEVEN	FORWARD (SAUCER)	PHASER COTNROL, PHASER BANK (F), SENSOR AND SCANNER CONTROL
DECK EIGHT	DORSAL (PYLON)	EMEGENCY SEAL AND SEPERATION, STORAGE
DECK NINE	DORSAL (PYLON)	AUXILLARY MACHINERY,
DECK TEN THRU FOURTEEN	DORSAL (PYLON)	AUXILLARY MACHINERY, REAR OBSERVATION DECKS, LOUNGES
DECK FIFTEEN		SHUTTLEBAY, SHUTTLE OBERSAVATION
DECK SIXTEEN		SHUTTLEBAY, MAIN ENGINEERING, PHASER BANK (A)
DECK SEVENTEEN		SHUTTLEBAY, MEDICAL SECTION, COMPUTERS
DECK EIGHTEEN		SHUTTLE MAINTEINANCE, GYMNASIUM, LOUNGE
DECK NINETEEN		SENSOR, SCANNER, AND DEFLECTION CONTROL, SHUTTLECRAFT SUPPLIES
DECK TWENTY		RECREATION AREA
DECK TWENTY-ONE		CREW QUARTERS
DECK TWENTY-TWO		FABRICATION FACILITIES, FOOD STORES, WASTE RETREATMENT
DECK TWENTY-THREE		STORAGE, CARGO HOLDS
DECK TWENTY-FOUR		CARGO HOLDS

TRANSPORT/TUG CLASS

PTOLEMY CLASS STARSHIPS

GENERAL INFORMATION

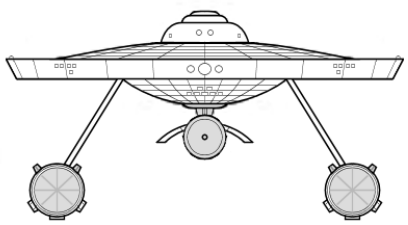
THE *PTOLEMY* CLASS WAS ONE OF THE FIRST FEW 'SISTER DESIGNS' TO BE CONCEIVED TO BE CONSTRUCTED FROM *CONSTITUTION*-STYLE PARTS. INDEED, A NEW CLASS OF 'ALL PURPOSE TRANSPORT' WAS SORELY NEEDED, AS OLD-TECHNOLOGY TRANSPORTS WERE EITHER BECOMING HOPELESSLY OBSOLETE, OR PROVED OTHERWISE INSUFFICIENT FOR DELIBERING GOODS, CARGO, AND PERSONNEL INTO THE FEDERATION FRONTIER.

THE *PTOLEMY*, PERHAPS, MAY BE OVERKILL FOR ITS INTENDED ASSIGNMENT. WITH THE HEAVY PRIMARY HULL, THE CLASS BOATS STRONG DEFENSE CAPABILITIES AND PLENTY OF INTERIOR HULL FOR SUPPLIES AND CREW FOR LONG-DISTANCE MISSIONS .

IN ADDITION TO THE SACUER'S CAPABILITIES, THE *PTOLEMY* IS THE LEAD SHIP IN THE 'TRANSPORT POD' PROJECT. BORROWING REFINING, AND EXPANDING ON THE IDEA OF 'CARGO PODS' FIRST INITIIATED ON THE DY SERIES,

TRANSPORT PODS ARE LARGE, MODULAR SYSTEMS WHICH CAN BE ADAPTED TO DIFFERENT ROLES. MOST PODS CURRENTLY IN USE ARE FOR ONE FORM OR CARGO OR ANOTHER, BUT THERE ARE ALSO PODS FOR STARLINERS, DEFENSE, FIGHTER-DEPLOYMENT, AND SO ON. THE ABILITIES OF A *PTOLEMY* MAY VARY WIDELY DEPENDING ON THE PODS SHE'S HAULING.

POMPEY CLASS - BOW VIEW



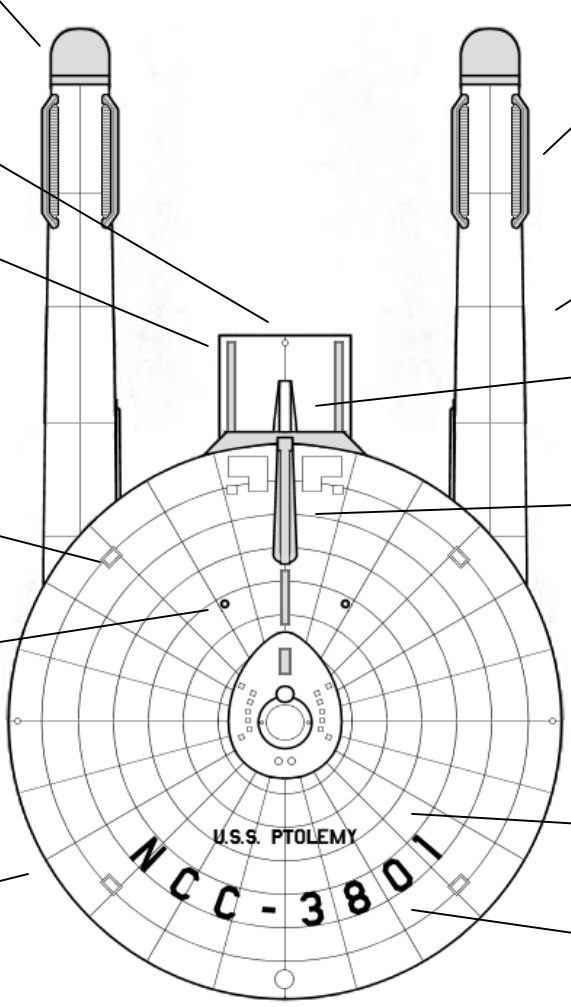
CONSTRUCTION DETAILS

CHIEF OF DESIGN	FRANZ JOSEPH
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	MAY 2258, SD 1313
VESSELS CONSTRUCTED	15

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 (JANURARY 2272)
USS PTOLEMY	NCC-3801	CLASS SHIP, DECOMISSIONED
USS AL RASHID	NCC-3802	INACTIVE/ UNDERGOING RECONSTRUCTION TO AL RASHID SPEC.
USS ANAXAGORIS	NCC-3803	INACTIVE/ UNDERGOING RECONSTRUCTION TO AL RASHID SPEC.
USS ANAXIMANDER	NCC-3804	INACTIVE/ UNDERGOING RECONSTRUCTION TO AL RASHID SPEC.
USS ARISTARCHUS	NCC-3805	ACTIVE / UESPA DEFENSE COMMAND
USS IBN DAUD	NCC-3806	ACTIVE / UESPA DEFENSE COMMAND
USS ERATOSTHENES	NCC-3807	ACTIVE / UESPA DEFENSE COMMAND
USS GALILEI	NCC-3808	DECOMISSIONED
USS HIPPARCHOS	NCC-3809	ACTIVE / STARFLEET COMMAND
USS ULUGH BEG	NCC-3810	ACTIVE / STARFLEET COMMAND
USS PHILOLAUS	NCC-3811	ACTIVE / STARFLEET COMMAND
USS PYTHAGORAS	NCC-3812	ACTIVE / STARFLEET COMMAND
USS THALES	NCC-3813	ACTIVE / STARFLEET COMMAND
USS HEVELIUS	NCC-3814	ACTIVE / STARFLEET COMMAND
USS COPERNICUS	NCC-3815	ACTIVE / STARFLEET COMMAND

TUG/TRANSPORT CLASS

PTOLEMY CLASS STARSHIPS – DORSAL VIEW



PB32 WARP FIELD GENERATOR COWLING [P/S]

POD NAVIGATION LIGHT

POD CONNECTION MOORING

AIRLOCK LIFT, LIFEBOAT LAUNCH [2X P/S]

MK IV SINGLE EMITTER PHASER BANK [P/S]

PRIMARY HULL [SAUCER]

PB-32 INTERCOOLER [P/S]

PB-32 PRIMARY WARP ENGINES [P/S]

HULL CONNECTION DORSAL PYLON

IPI86E IMPULSE UNIT HOUSING

NAVIGATION LIGHTS [P/S]

VESSEL'S COMMISIONED NAME

STARFLEET REGISTRY ID

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

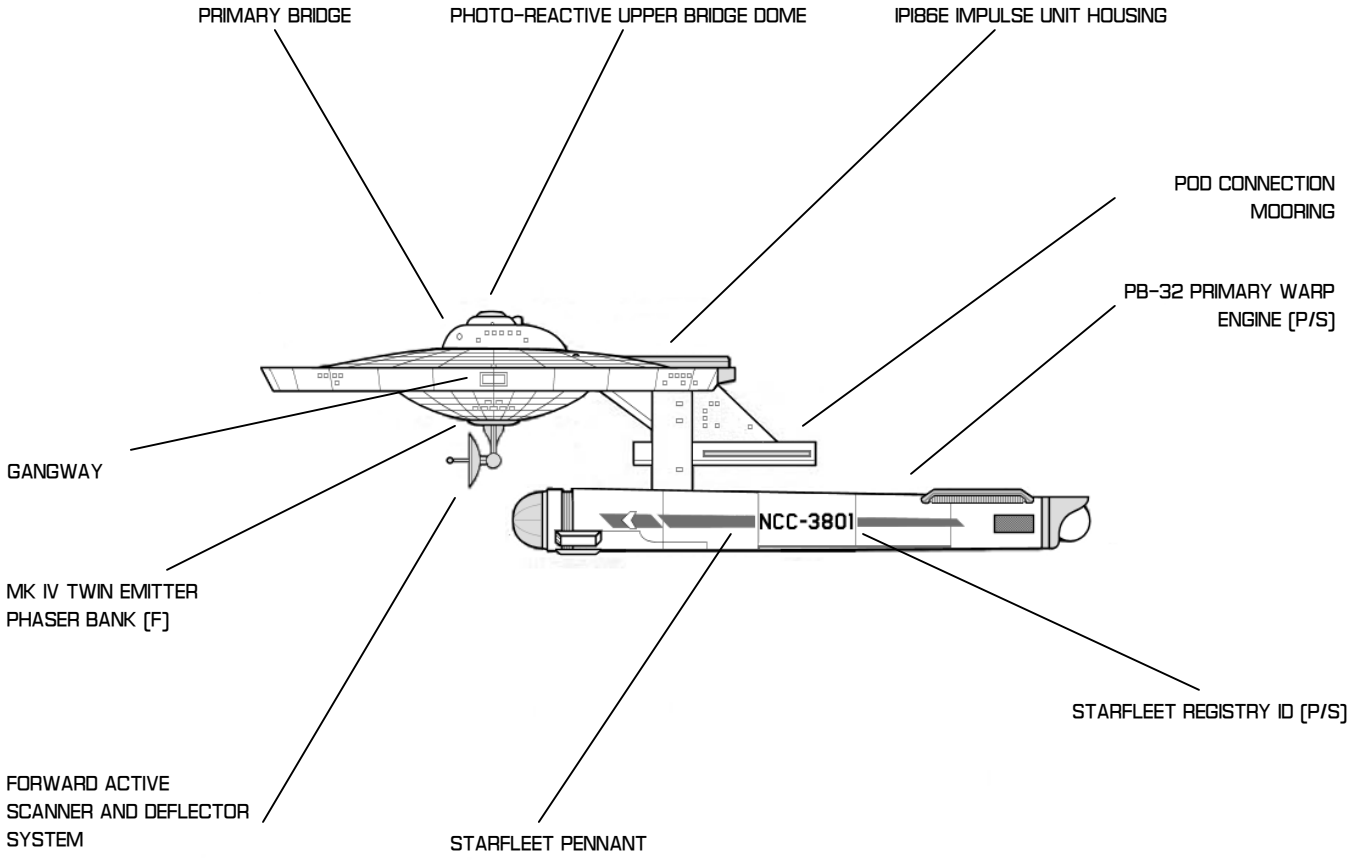
GENERAL PLANS:/RECOGNITION DETAIL
TUG/TRANS. [TT] / PTOLEMY CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	FRANZ JOSEPH
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

TUG/TRANSPORT CLASS

PTOLEMY CLASS STARSHIPS – DORSAL VIEW



TUG/TRANSPORT CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	22
CREW	198

DIMENSIONS	
DEADWEIGHT TONNAGE	126,500 MT
LENGTH	222M
BREADTH	127 M
HEIGHT	66 M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F)
	MK IV SINGLE EMITTER (R/P, R/S)
PHOTON TORPEDOES	NONE
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX ADV SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III ADV SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	SUPPLY TRANSPORT (TT)
MAXIMUM OPERATING RANGE	5 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		PHOTON CONTROL,
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (R/P, R/S)
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT	FORWARD (SAUCER)	TRAVEL PODS, PERSONNEL GANGWAY ACCESS, COMPUTER ARRAY
DECK NINE	FORWARD (SAUCER)	FABRICATION FACILITIES, STORAGE
DECK TEN	FORWARD (SAUCER)	RECREATION DECKS, STORAGE
DECK ELEVEN	FORWARD (SAUCER)	PHASER COTNROL, PHASER BANK (F), SENSOR AND SCANNER CONTROL
DECK EIGHT	DORSAL (PYLON)	EMEGENCY SEAL AND SEPERATION, STORAGE
DECK NINE	DORSAL (PYLON)	AUXILLARY MACHINERY,
DECK TEN	DORSAL (PYLON)	AUXILLARY MACHINERY, REAR OBSERVATION DECK
DECK ELEVEN	DORSAL (PYLON)	POD CONNECTION MOORING CONTROLS, AUXILLARY SYSTEMS

HEAVY TRANSPORT/TUG CLASS

DOLLAND CLASS STARSHIPS

GENERAL INFORMATION

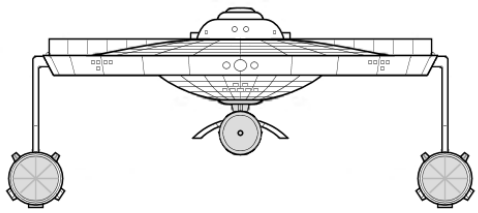
THE *DOLLAND* WAS BORN OF THE SUCCESS OF THE *COVENTRY* CLASS, AND IS, EFFECTIVELY, A MODIFIED VERSION OF THAT SHIP. THE *DOLLAND* IS RIGGED AS A 'LONG RANGE' TRANSPORT, WITH GREATER CAPABILITIES EVEN THAN THAT OF THE *PTOLEMY* CLASS.

THE BENEFITS OF THE CLASS ARE THE HEAVIER FIREPOWER, COMBAT CAPABILITIES AND INCREASED SUPPORT SYSTEMS FOUND IN THE 'TEARDROP' HULL. INDEED, *DOLLAND* CLASS TRANSPORTS HAVE EVEN TRIUMPHED IN BATTLE OVER KLINGON AND ORION FRIGATES MATCHING HER WEIGHT, NEARLY UNHEARED OF FOR A MERE TRANSPORT!

THE *DOLLAND,* HOWEVER, IS AN EXTREMELY EXPENSIVE TRANSPORT CRAFT TO PRODUCE, AND ITS CARGO CAPACITY ISN'T ANY GREATER THAN THAT OF THE *PTOLEMY*. AS A RESULT, MOST OF THE PLANNED RUN OF FORTY SHIPS WERE CUT BACK, WITH INTENDED DUTIES ASSIGNED TO MORE-AFFORDABLE VESSELS.

WITH THE EXPENSE IN MAINTAINING THESE VESSELS, *DOLLAND* CLASS TRANSPORTS PRIMARY SERVE IN FRONTIER AREAS DEEMED 'VULERNABLE' AND TOO UNSAFE FOR 'LESSER' TRANSPORTS TO GO WITHOUT ESCORT. AS SUCH, THE SHIPS ARE PLACED IN HARM'S WAY MORE OFTEN THAN NOT. DESPITE THIS, THE LOSS RECORD FOR *DOLLAND* CLASS TRANSPORTS HAVE BEEN REMARKABLY STRONG.

DOLLAND CLASS – BOW VIEW



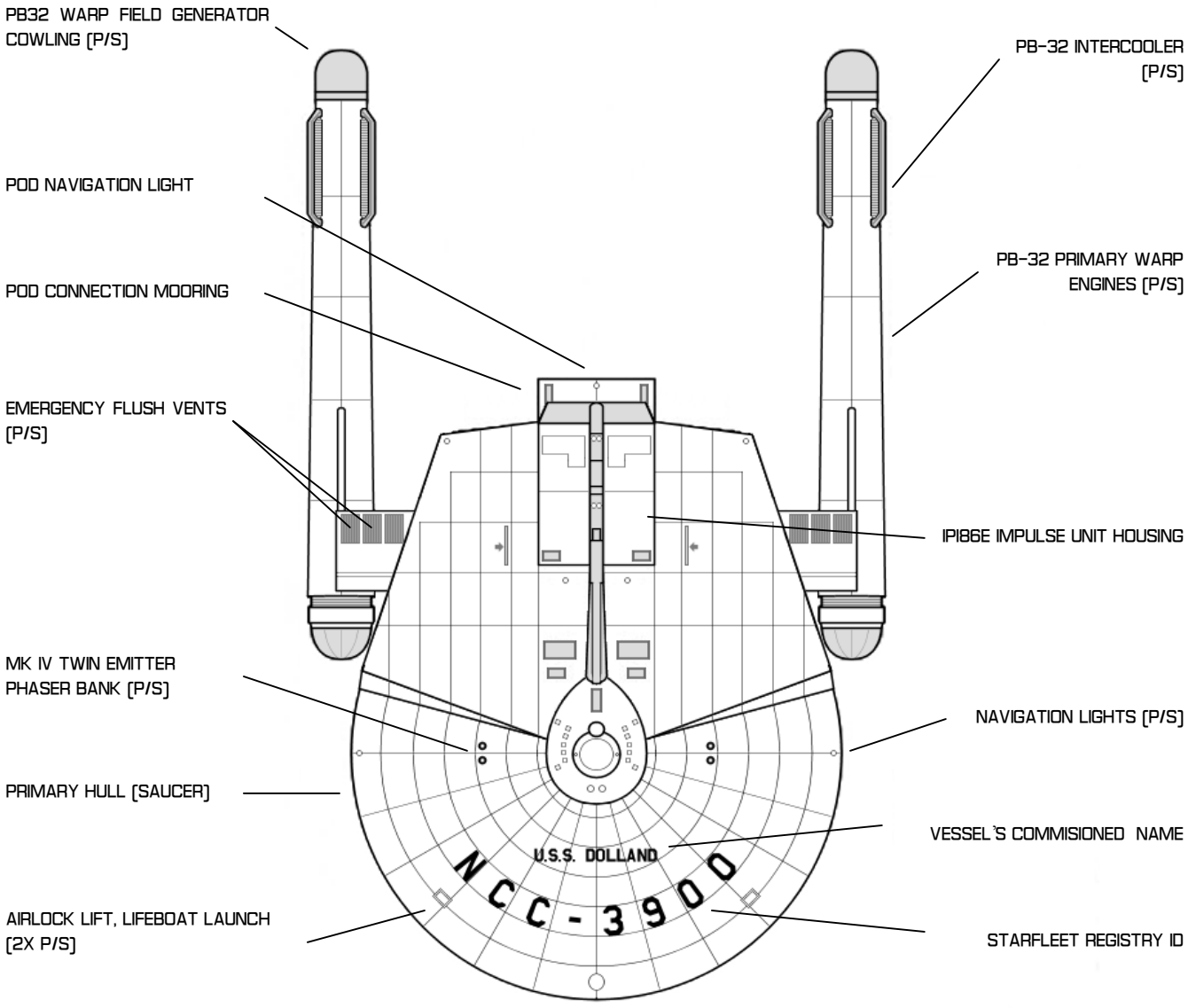
CONSTRUCTION DETAILS

CHIEF OF DESIGN	PATRICK LICHTY
PRIMARY SHIPYARD	RAKALA FLEET YARDS
PROJECT INITIATION	MARCH 2259, SD 1740
VESSELS CONSTRUCTED	20

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 (JANURARY 2272)
USS DOLLAND	NCC-3900	CLASS SHIP, ACTIVE / STARFLEET COMMAND
USS GOLDREICH	NCC-3901	ACTIVE / STARFLEET COMMAND.
USS HERTZSPRUING	NCC-3902	ACTIVE / STARFLEET COMMAND
USS IRWIN	NCC-3903	ACTIVE / STARFLEET COMMAND
USS KOHLSHUTTER	NCC-3904	DECOMISSIONED
USS MOULTON	NCC-3905	ACTIVE / STARFLEET COMMAND
USS POGSON	NCC-3906	ACTIVE / STARFLEET COMMAND
USS RUSSEL	NCC-3907	ACTIVE / STARFLEET COMMAND
USS SLIPHER	NCC-3908	ACTIVE / STARFLEET COMMAND
USS VAN DE HULST	NCC-3909	DESTROYED
USS YOUNG	NCC-3910	ACTIVE / STARFLEET COMMAND
USS BESSEL	NCC-3911	ACTIVE / STARFLEET COMMAND
USS CHALLIS	NCC-3912	ACTIVE / STARFLEET COMMAND
USS FLAMSTEED	NCC-3913	ACTIVE / STARFLEET COMMAND
USS HENDERSON	NCC-3914	ACTIVE / STARFLEET COMMAND

HEAVY TUG/TRANSPORT CLASS

DOLLAND CLASS STARSHIPS – DORSAL VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

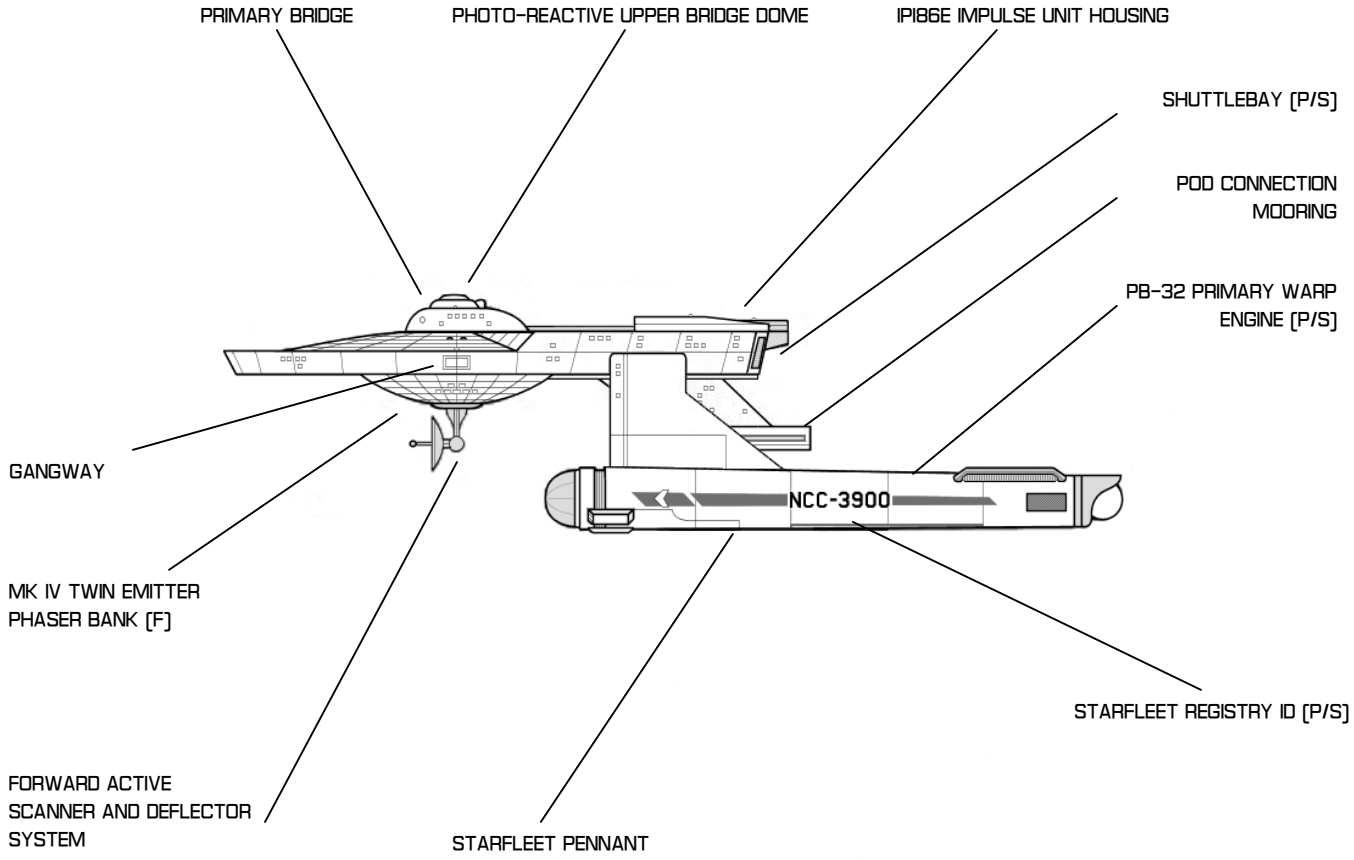
GENERAL PLANS:/RECOGNITION DETAIL
HVY TUG/TRANS. [TT+] / DOLLAND CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	PATRICK LICHTY
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

HEAVY TUG/TRANSPORT CLASS

DOLLAND CLASS STARSHIPS – DORSAL VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
HVY TUG/TRANS. [TT+] / DOLLAND CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	PATRICK LICHTY
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

HEAVY TUG/TRANSPORT CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS [COMMAND]	32
CREW	195

DIMENSIONS	
DEADWEIGHT TONNAGE	152,000 MT
LENGTH	244M
BREADTH	149 M
HEIGHT	65 M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER [F]
PHOTON TORPEDOES	NONE
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR [A]

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM [WF 6/8]
IMPULSE/SL DRIVE	IPI86E [.75C]
RCS SYSTEM	CCR45C [500KPM]

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2
TYPE F SHUTLECRAFT	4

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX ADV SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III ADV SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	SUPPLY TRANSPORT [TT+]
MAXIMUM OPERATING RANGE	7 YEARS AT LYV

DECK ARRANGEMENT [GENERAL]	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		PHOTON CONTROL,
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS [F/P, F/S]
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT	FORWARD [SAUCER]	TRAVEL PODS, PERSONNEL GANGWAY ACCESS, SHUTTLEBAYS
DECK NINE	FORWARD [SAUCER]	FABRICATION FACILITIES, STORAGE
DECK TEN	FORWARD [SAUCER]	RECREATION DECKS, STORAGE
DECK ELEVEN	FORWARD [SAUCER]	PHASER COTNROL, PHASER BANK [F], SENSOR AND SCANNER CONTROL
DECK EIGHT	DORSAL [PYLON]	EMEGENCY SEAL AND SEPERATION, STORAGE
DECK NINE	DORSAL [PYLON]	AUXILLARY MACHINERY,
DECK TEN	DORSAL [PYLON]	AUXILLARY MACHINERY, REAR OBSERVATION DECK
DECK ELEVEN	DORSAL [PYLON]	POD CONNECTION MOORING CONTROLS, AUXILLARY SYSTEMS

CRUISER CLASS

ANTON CLASS STARSHIPS

GENERAL INFORMATION

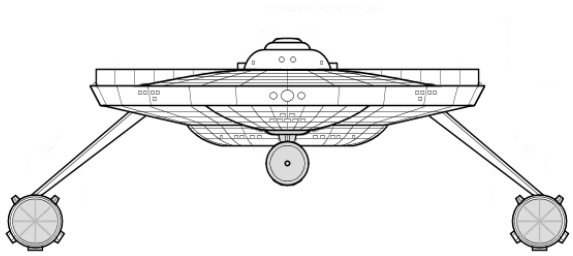
THE ANTON CLASS, ORIGINALLY, WAS DESIGNED AS A HEAVY CRUISER BACKUP FOR THE VENERABLE BATON ROUGE DESIGN, THE APPROVAL PROCESS FOR THE SHIP KEPT GETTING DELAYED, WITH EACH DELAY CAUSING THE DETERMINED DESIGNERS TO REVISIT THE DESIGN AND UPDATE IT TO THE NEWEST SPECIFICATIONS.

IN 2235, THE CLASS WAS ACTUALLY FORMALLY APPROVED, BUT WAS DELAYED BEFORE CONSTRUCTION COULD BEGIN PENDING THE RESULTS OF THE NEW FB-32 ENGINES. IT WOULD BE THIRTEEN YEARS BEFORE THE SHIP CLASS WAS FINALLY LAUNCHED.

THOUGH EFFECTIVE AS A CRUISER, THE ANTON NEVER SEEMED TO BE POPULAR WITH HER CREWS, AND WOULD PLAY A DISTANT SECOND-FIDDLE TO THE BETTER-RECEIVED *CONSTITUTION* CLASS STARSHIP. .

THE LEGACY OF THE *ANTON* CONTINUES, HOWEVER, AS NEW DESIGNS TOOK THE MORE SUCCESSFUL ELEMENTS AND CONCEPTS FROM HER AND GAVE BIRTH TO THE *SURYA* AND *CONVENTRY* CLASSES. IRONICALLY, THE REMAINING *ANTON* CLASS VESSELS ARE SCHEDULED FOR REFIT AND REBUILDING TO ITS OWN GRANDCHIILD DESIGN, THE NEW *MIRANDA* CLASS.

ANTON CLASS - BOW VIEW



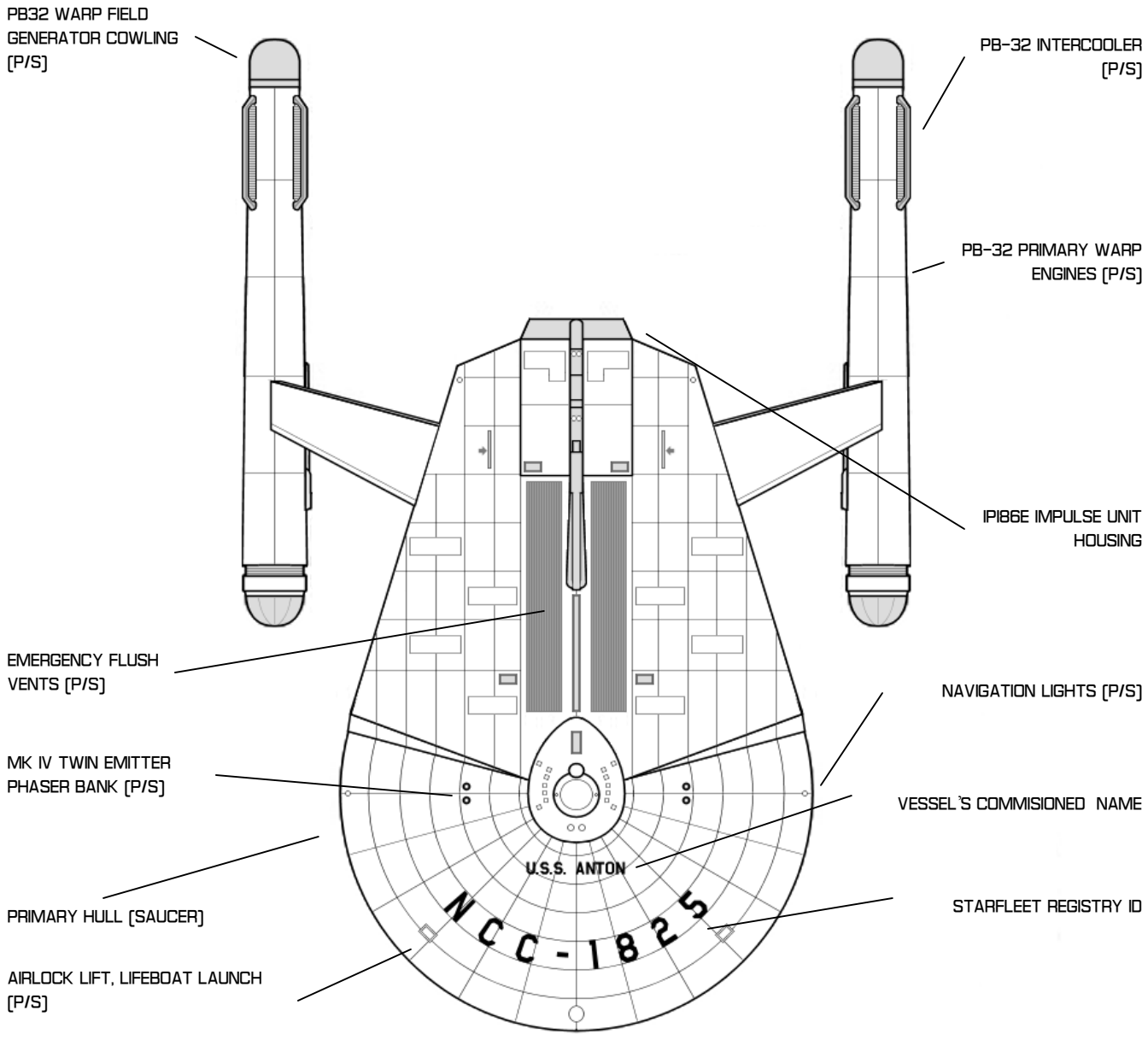
CONSTRUCTION DETAILS

CHIEF OF DESIGN	DANA KNUTSON
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	JULY 2248, SD 1695
VESSELS CONSTRUCTED	8

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 [JANURARY 2272]
USS ANTON	NCC-1825	CLASS SHIP, DESTROYED
USS ANDERSON	NCC-1826	DESTROYED
USS HAMMANN	NCC-1827	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS HUGHES	NCC-1828	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS SIMES	NCC-1829	ACTIVE / STARFLEET COMMAND
USS MUSTIN	NCC-1830	ACTIVE / STARFLEET COMMAND
USS RUSSELL	NCC-1831	ACTIVE / STARFLEET COMMAND
USS O'BRIEN	NCC-1832	ACTIVE / STARFLEET COMMAND

CRUISER CLASS

ANTON CLASS STARSHIPS – DORSAL VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

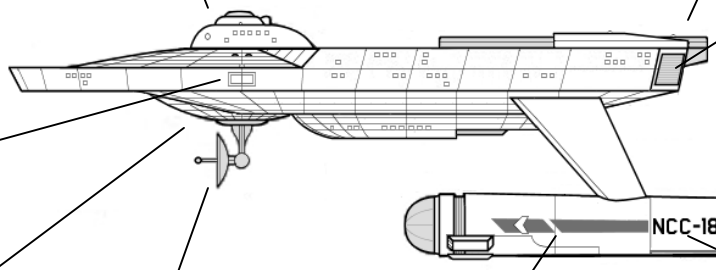
GENERAL PLANS:/RECOGNITION DETAIL
CRUISER [CA] / ANTON CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	DANA KNUTSON
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

CRUISER CLASS

ANTON CLASS STARSHIPS – PORT VIEW



PRIMARY BRIDGE

PHOTO-REACTIVE UPPER BRIDGE DOME

IPI86E IMPULSE UNIT HOUSING

SHUTTLEBAY [P/S]

PB-32 PRIMARY WARP ENGINE [P/S]

GANGWAY

MK IV TWIN EMITTER PHASER BANK [F]

STARFLEET REGISTRY ID [P/S]

FORWARD ACTIVE SCANNER AND DEFLECTOR SYSTEM

STARFLEET PENNANT

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
CRUISER [CC] /ANTON CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	DANA KNUTSON
AUTHENTICATION APPROVAL	SD 2401.55
VERSION RELEASE	SD 7411.27

CRUISER CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	43
CREW	215

DIMENSIONS	
DEADWEIGHT TONNAGE	160,000 MT
LENGTH	265M
BREADTH	179M
HEIGHT	68M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F, F/P, F/S)
PHOTON TORPEDOES	MK XII/IF TWIN LAUNCHER (F)
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (F, A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2
TYPE F SHUTTLECRAFT	2
TYPE AF SHUTTLECRAFT	2
TYPE HF SHUTTLECRAFT	2

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX ADV SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III ADV SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	PATROL COMBATANT, CA
MAXIMUM OPERATING RANGE	5 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		PHOTON CONTROL,
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (F/P, F/S)
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		CREW QUARTERS, AUX CONTROL, PERSONELL GANGWAY ACCESS
DECK EIGHT		TRAVEL PODS, PERSONNEL GANGWAY ACCESS, SHUTTLEBAYS
DECK NINE		COMPUTER ARRAY, FABRICATION FACILITIES, STORAGE
DECK TEN		RECREATION DECKS, STORAGE
DECK ELEVEN		PHASER COTNROL, PHASER BANK (F), SENSOR AND SCANNER CONTROL
DECK TWELVE		CARGO HOLD, AUXILLARY MACHINERY
DECK THIRTEEN		CARGO HOLD, AUXILLARY MACHINERY

FRIGATE CLASS

SURYA CLASS STARSHIPS

GENERAL INFORMATION

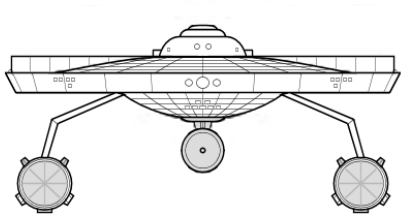
THE *SURYA* BEGAN LIFE AS AN INTENDED VARIANT OF THE *ANTON* CLASS CRUISER, BUT WOUND UP BEING A COMPLETELY REWORKED VERSION OF THE OLDER CLASS, TAKING MANY VALUABLE LESSONS IN ENGINEERING AND DESIGNED LEARNED THROUGH THE ANTON'S WEAKNESSES.

THE NEW CLASS PROVED FORMIDABLE IN MOST REPSECTS, AND WAS IMMEDIATELY DISPATCHED TO 'STARSHIP' DUTIES ALONG-SIDE THE *CONSTITUTION* CLASS., FULFILLING A VARIETY OF MISSION PROFILES. THE SHIPS HAVE ALREADY EARNED A STRONG REPUTATION WITH HER CREWS, AND HAVE BECOME A 'DE FACTO' WORKHORSE FOR THE FEDERATION.

MOST OF THE *SURYA* VESSELS HAVE BEEN ASSIGNED TO THREE YEAR EXPLORATION MISSIONS, AS WELL AS SERVING AS DE-FENSE PATROL SHIPS ALONG THE FRONTIER. WHILE NOT AS PRESTIGIOUS AS SERVING ABOARD THE *CONSTITUTION* CLASS, GETTING AN ASSIGNMENT ABOARD A *SURYA* WAS CONSIDERED AN HONOR.

THOUGH THE *SURYA* HAS PROVEN TO BE MORE THAN A WOR-THY VESSEL A REWORKED VERSION OF THIS BASIC DESIGN, THE *USS MIRANDA* WOULD EFFECTIVELY TAKE HER PLACE IN 2270. ALREADY, SEVERAL MEMBERS OF THE *SURYA* CLASS, AND OTHER CLASSES, ARE SCHEDULED FOR UPRATING TO THE NEW DEISNG.

SURYA CLASS - BOW VIEW



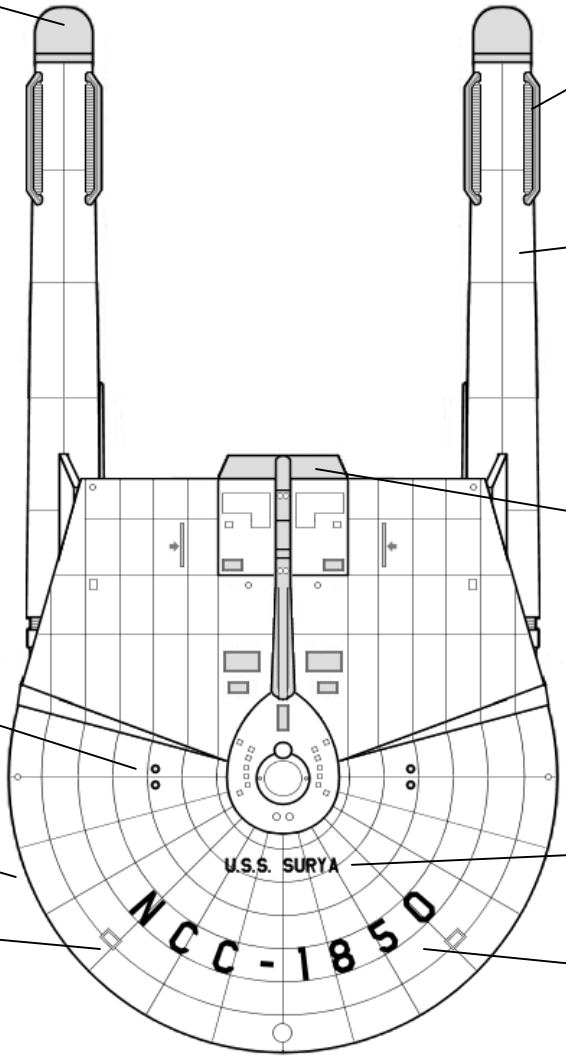
CONSTRUCTION DETAILS

CHIEF OF DESIGN	ARIDAS SOFIA
PRIMARY SHIPYARD	UTOPIA PLANETIA
PROJECT INITIATION	MARCH 2259, SD 1740
VESSELS CONSTRUCTED	23

VESSEL NAME	REGISTRY	STATUS AS OF SD 7411.3 (JANUARY 2272)
USS SURYA	NCC-1850	CLASS SHIP;
USS ILLUSIVE	NCC-1851	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS ANTRIM	NCC-1852	DESTROYED
USS DURMITOV	NCC-1853	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS KANARIS	NCC-1854	ACTIVE / UESPA DEFENSE COMMAND
USS PRALAYA	NCC-1855	MISSING IN ACTION
USS HASHIRA	NCC-1856	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS ADALUCIA	NCC-1857	ACTIVE / STARFLEET COMMAND
USS BRILLIANT	NCC-1858	ACTIVE / STARFLEET COMMAND
USS THETIS	NCC-1859	ACTIVE / STARFLEET COMMAND
USS MIRANDA	NCC-1860	ACTIVE / STARFLEET COMMAND
USS TIAN AN MEN	NCC-1861	ACTIVE / STARFLEET COMMAND
USS TEMPEST	NCC-1862	ACTIVE / STARFLEET COMMAND
USS DEMETER	NCC-1863	ACTIVE / STARFLEET COMMAND
USS RELIANT	NCC-1864	INACTIVE/ UNDERGOING RECONSTRUCTION TO MIRANDA SPEC.
USS VIGILANT	NCC-1865	DECOMISSIONED
USS OBERON	NCC-1866	DESTROYED
USS SARATOGA	NCC-1867	ACTIVE / STARFLEET COMMAND
USS ENFORCER	NCC-1868	ACTIVE / STARFLEET COMMAND
USS VALHALLA	NCC-1869	ACTIVE / STARFLEET COMMAND
USS SUTHERLAND	NCC-1870	ACTIVE / STARFLEET COMMAND
USS REDAN	NCC-1871	ACTIVE / STARFLEET COMMAND
USS PERSEUS	NCC-1872	ACTIVE / STARFLEET COMMAND

FRIGATE CLASS

SURYA CLASS STARSHIPS – DORSAL VIEW



PB32 WARP FIELD GENERATOR COWLING [P/S]

PB-32 INTERCOOLER [P/S]

PB-32 PRIMARY WARP ENGINES [P/S]

IPI86E IMPULSE UNIT HOUSING

MK IV TWIN EMITTER PHASER BANK [P/S]

NAVIGATION LIGHTS [P/S]

PRIMARY HULL [SAUCER]

VESSEL'S COMMISIONED NAME

AIRLOCK LIFT, LIFEBOAT LAUNCH [P/S]

STARFLEET REGISTRY ID

UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

GENERAL PLANS:/RECOGNITION DETAIL
FRIGATE [FF] / SURYA CLASS

AUTHENTICATION NOTICE

CHIEF OF DESIGN	ARIDAS SOFIA
AUTHENTICATION APPROVAL	SD 2401.55
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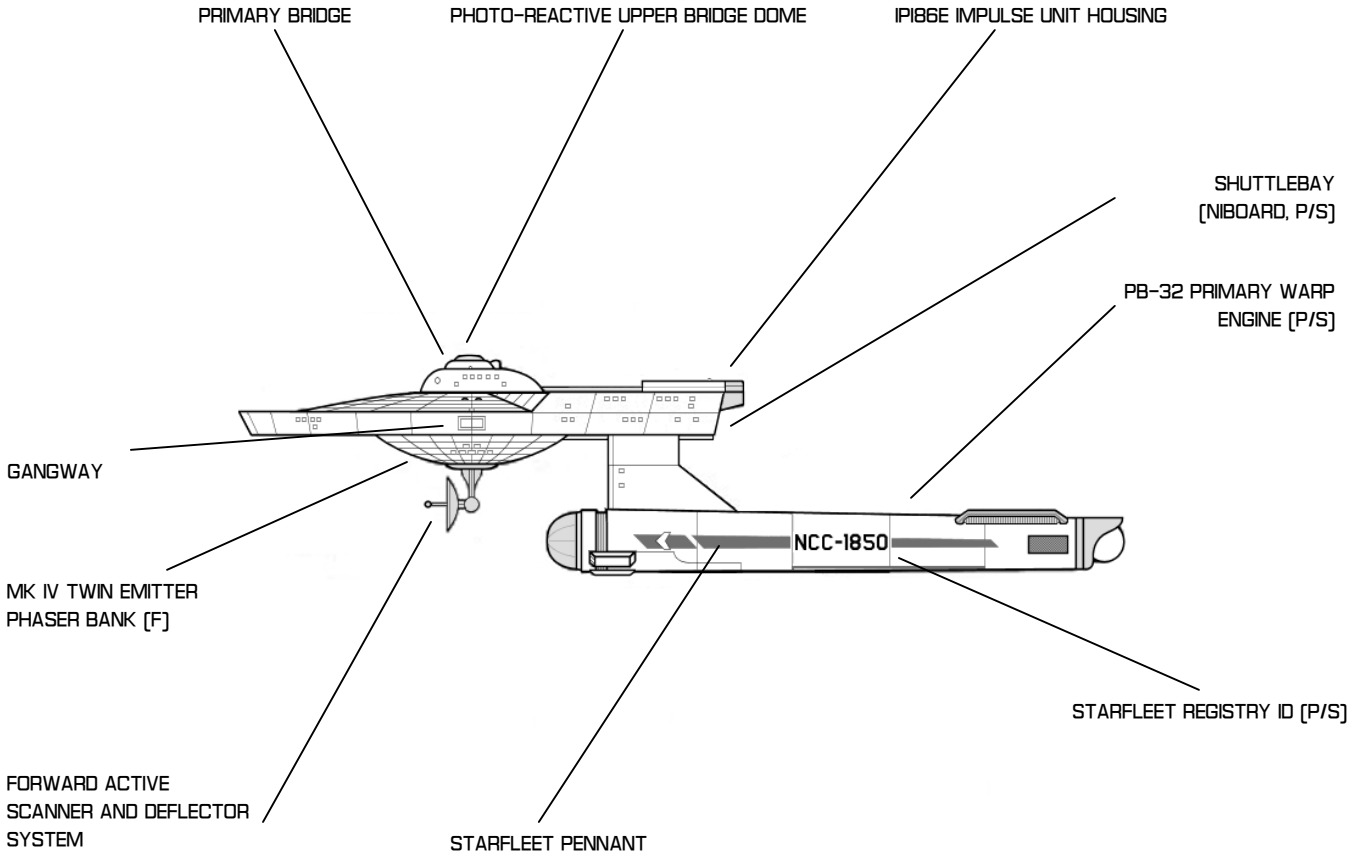
FRIGATE CLASS

SURYA CLASS STARSHIPS – PORT VIEW



UNITED FEDERATION OF PLANETS
STAR FLEET DIVISION

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FRIGATE CLASS

CLASS SPECIFICS

STANDARD COMPLEMENT	
OFFICERS (COMMAND)	32
CREW	195

DIMENSIONS	
DEADWEIGHT TONNAGE	155,000 MT
LENGTH	214M
BREADTH	127M
HEIGHT	61M

ARMAMENTS	
PHASERS	MK IV TWIN EMITTER (F, F/P, F/S)
PHOTON TORPEDOES	MK XII/IF TWIN LAUNCHER (F)
DEFENSE DEFLECTOR SHIELD	PFF2A
PASSIVE DEFLECTOR	MK VI/AS
TRACTOR BEAM EMITTER	MK IV SS MICRO-COMPRESSOR (A)

PROPULSION SYSTEMS	
WARP/FTL DRIVE	PB-32 MK III—TANDEM (WF 6/8)
IMPULSE/SL DRIVE	IPI86E (.75C)
RCS SYSTEM	CCR45C (500KPM)

SUPPLEMENTAL CRAFT	
TYPE H TRAVEL POD	2
TYPE F SHUTTLECRAFT	2
TYPE HF SHUTTLECRAFT	1

SECONDARY SYSTEMS	
MAIN COMPUTER	DUOTRONIC MK II CU
ACTIVE SCANNER SUITE	MK III LX ADV SENSORY SYSTEM
PASSIVE SENSOR SUITE	MK III ADV SENSORY SYSTEM
TRANSPORTERS	2 STD / 2 EVAC / 2 CARGO
LIFE SUPPORT	MK IV CT-3 SUITE

MISSION PROFILE	
MISSION TYPE	PATROL COMBATANT, FF
MAXIMUM OPERATING RANGE	5 YEARS AT LYV

DECK ARRANGEMENT (GENERAL)	VESSEL SECTION	DECK SUMMARY
DECK ONE		BRIDGE
DECK TWO		SCIENCE LABS
DECK THREE		PHOTON CONTROL,
DECK FOUR		OFFICER'S QUARTERS
DECK FIVE		OFFICER'S QUARTERS, PHASER CONTROL, PHASER BANKS (F/P, F/S)
DECK SIX		CREW QUARTERS, ENGINEERING, IMPULSE REACTOR CONTROL
DECK SEVEN		AUX CONTROL, PERSONELL GANGWAY ACCESS, SHUTTLE-BAY ACCESS
DECK EIGHT		TRAVEL PODS, PERSONNEL GANGWAY ACCESS, SHUTTLE-BAY ACCESS
DECK NINE		FABRICATION FACILITIES, STORAGE, COMPUTER ARRAY
DECK TEN		RECREATION DECKS, STORAGE
DECK ELEVEN		PHASER COTNROL, PHASER BANK (F), SENSOR AND SCANNER CONTROL

WARP ENGINE - PB-32

STARSHIP "FASTER THAN LIGHT" MAIN DRIVE SYSTEM

GENERAL INFORMATION

THE PB-32 FTL ENGINE WOULD BE THE FIRST PRODUCED DILITHIUM-FOCUSED MATTER/ANTI-MATTER WARP DRIVE SYSTEM. INTRODUCED IN 2240 ON THE PROTOTYPE *USS BONAVENTURE*, THE SYSTEM PROVED TO BE MORE POWERFUL, MORE CAPABLE, AND MORE VERSATILE THAN ANY ENGINE FIELED BY ANY FEDERATION WORLD BEFORE. THE DRAMATIC IMPROVEMENTS IN WARP SPEEDS (ALONG WITH REDUCTION IN TIME DILATION PROBLEMS) WOULD BE CONSIDERED BY MANY TO BE 'BREAKING THE TMIE BARRIER' IN FASTER-THAN-LIGHT TRAVEL.

THE PB-32 WOULD GO THROUGH A FEW MINIOR REVISIONS OVER HER DESIGN HISTORY (WITH THE LATEST BEING MOD 3), WITH ENGINEERS IN MANY SHIPS (SUCH AS THE *ENTERPRISE*) TAKING THE IMPRESSIVE ENGINES AND PUSHING THEIR PERFORMANCE TO UNHEARD-OF LEVELS.

THE BASIC DESIGN OF THE PB-32 WOULD NOT ONLY SPAWN TRUE VARIANTS OF THE ENGINE, BUT ALSO A NUMBER OF CLOSE RELATIVES FOR USE IN OTHER SHIP CLASSES. EVEN THE TYPE F SHUTTLECRAFT MAKES USE OF THE PB-32'S OVERALL ARCHETETCTURE WITH ITS FB-24 MICRO-WARP ENGINES,

BY THE 2260'S, HOWEVER, IT WAS BECOMING OVBVIOUS THAT THE VENERABLE PB-32 ENGINE DESIGN WAS BEGINNING TO HIT THE END OF ITS 'HEYDAY'. THOUGH TWEAKS AND MODIFICATIONS CONTINUED TO MAKE THE PB-32 DRIVEN *ENTERPRISE* THE FASTEST OF ALL STARSHIPS WITHIN THE FLEET, IT WAS BECOMING INCREASINGLY CLEAR THAT IT WAS TIME TO LOOK FOR NEW DESIGNS.

AS OF 2265, THE LN-48, CONSIDERED BY MANY ENGINEERS TO BE A 'STOP GAP' MEASURE TO TECHNOLOGICAL IMPROVEMENTS WAS TO BE USED ON NEW SHIPS OF THE LINE, THOUGH NO UPRATING PROGRAMS WERE AUTHORIZED. IN 2270, OF COURSE, THE LN-64 ENGINE SERIES FINISHED THEIR TRIALS, MARKING A FORMAL END TO THE PB-32'S RUN AS THE FEDERATIONS' MAINSTAY ENGINE..

VARIANT ENGINES OF THE SERIES

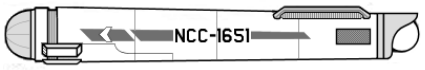
PB-32-S

INTRODUCED IN 2244 AND COMMONLY FOUND ON LIGHTER, 'SUPPORT' SHIPS, THE PB-32-S IS, IN A PRACTICAL SENSE, THE PB-32 WITHOUT THE SECONDARY COMPRESSOR FIELDS AND A REDUCED OVERALL POWER OUTPUT. AS A RESULT, THE PB-32-S IS CONSIDERED THE 'SHORT' MODEL, WITH SLIGHTLY LESS OPTIMAL PERFORMANCE THAN THE PB-32.

PB-32-L

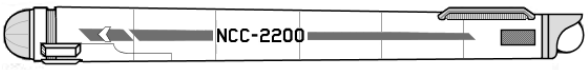
INTRODUCED IN 2255, THE "LONG" VERSION OF THE PB-32 ENGINE IS RESERVED PRIMARILY FOR ULTRA-HEAVY SHIPS, SUCH AS CARRIERS AND PROPOSED HEAVY BATTLESHIPS. AS EXPECTED, THESE ENGINES EXTEND THE SECONDARY COMPRESSOR FIELD SYSTEM AND GENERATE A HIGHER OVERALL POWER OUTPUT. THOUGH RATED AT HIGHER SPEEDS THAN THE PB-32 ITSELF, THE GENERAL HIGH COST AND MAINTENANCE REQUIREMENTS ON THE ENGINES HAVE KEPT THEM OUT OF FAVOR FOR MOST DESIGNS.

PB-32 VARIANT COMPARISON SCHEMATIC



PB-32-S "SHORT" VARIANT

PB-32 MAIN DESIGN

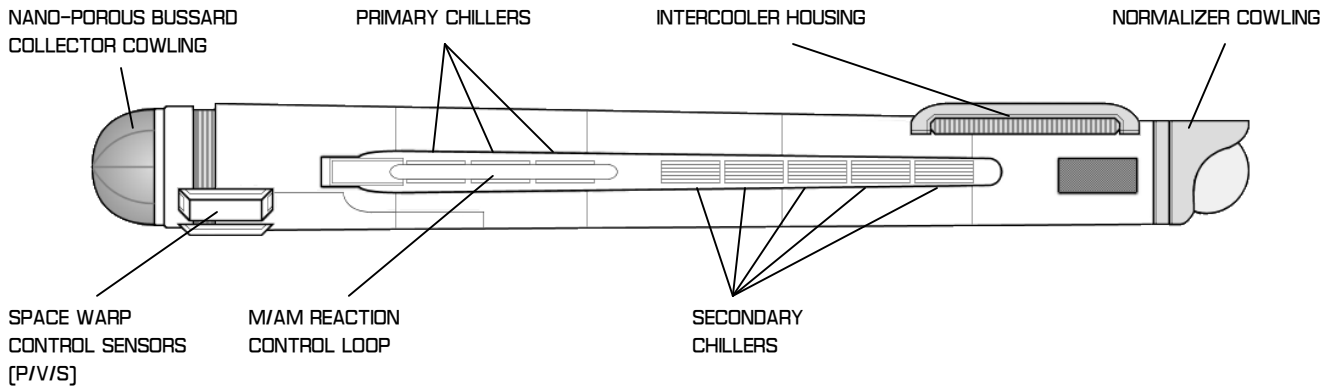


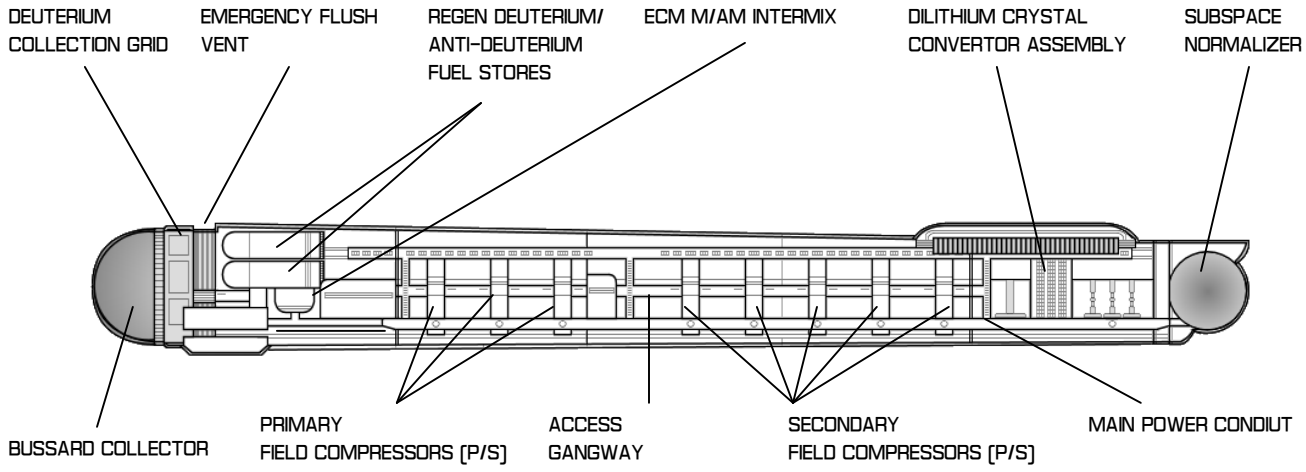
PB-32-L "LONG" VARIANT

SYSTEM DETAILS			
DESIGNATION	PB-32 "FTL" WARP ENGINE	PB-32-S "FTL" WARP ENGINE	PB-32-S "FTL" WARP ENGINE
SYSTEM COMMISION	MARCH 2240, SD 1113	FEBRURARY 2244, SD 1217	FEBRURARY 2255, SD 3141
SYSTEM FUNCTION	MAIN WARP DRIVE UNIT M/AM POWER SOURCE	MAIN WARP DRIVE UNIT M/AM POWER SOURCE	MAIN WARP DRIVE UNIT M/AM POWER SOURCE
SYSTEM SPECIFICS			
LENGTH	157M	130M	183M
WIDTH	18M	18M	18M
HEIGHT	18M	18M	18M
MASS	35,000MT	28,000MT	45,000MT
PERFORMANCE INFORMATION			
WARP SPEED RATING	SINGLE WF 5/7* TANDEM WF 6/8 TRIPLE WF 7/9*	SINGLE WF 4/6* TANDEM WF 5/7 TRIPLE WF 6/8*	SINGLE WF 6/8* TANDEM WF 7/9 TRIPLE WF 8/10*

WARP ENGINE - PB-32

STARSHIP "FASTER THAN LIGHT" MAIN DRIVE SYSTEM





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WARP ENGINE - PB-32

AUTHENTICATION NOTICE

CHIEF OF DESIGN	MATTHEW JEFFERIES
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