JAYNZ
SHIPS OF THE STAR FLEET
CONSTITUTION CLASS
HEAVY CRUISER EVOLUTION
BACKGROUND
Whereas the Baton Rogue class of the previous generation signaled the pinnacle of the “Earth” fleet, the Constitution class would herald the beginning of a true Star Fleet for the entire Federation. Indeed, it’s difficult to imagine the Federation Fleet without the Heavy Cruiser at the front of it, exploring strange new worlds, and boldly going where no man has gone before.

Though dated by today’s standards, The original configuration of the Constitution class, launched in 2245 STC, still represents the single largest breakthrough in Federation naval science over the last 100 years. With the installation of the PB-31 warp engines, a refinement on the PBX-30 engines found on the Bonaventure, Federation starships could now cross in mere days or weeks what the previous generation of starships would require months or even years to manage.

Strategically, the Constitution Class, being able to deliver significant firepower at high speeds, meant that the federation could now both dramatically expand and more effectively protect its borders. With the steadily increasing threat of the Klingon Empire, the deployment of a Constitution class vessel allowed for a quick response to hostile action, as well as present a considerable show of force to any other would-be enemy.

In addition to the vessels’ raw power, new scientific equipment, thanks to the Duotronic breakthroughs installed within her computer cores, would allow the Constitution class to perform surveys with higher fidelity and accuracy than had been managed in the past. As a natural result, when a Constitution class vessel was not strategically engaged, she would more than likely be assigned to chart and detail the frontiers of Federation space.

Tactically, the Constitution class suffered only with its dependence on the already sorely-dated Phase Laser technology. Klingon disruptor technology had already surpassed Federation beam weaponry, making most commanders heavily reliant on photon torpedoes. Fortunately the twin launchers of the Constitution class would prove a formidable offense, though the problem of the Phase Laser would plague Federation starships for several years to come, and prove particularly damning in the upcoming Four Year’s war.

Overall, The first version of the Constitution class would solidify her place in Star Fleet history. Indeed, the success of missions such as Captain Robert April’s three year mission into the frontier would embolden the fledgling Star Fleet as well as help secure humanity’s place within the galaxy.

With improvements made to the PB-31 engine design, The original configuration (Mod-1) of the class would be phased out by early 2251. By that time, all 16 ships of the class would be uprated to this specification.

12 CONSTITUTION TYPE CLASS [BATCH 1] (CA)

<table>
<thead>
<tr>
<th>Name</th>
<th>Registry</th>
<th>Construction Facility</th>
<th>Launched</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constitution</td>
<td>NCC-1700</td>
<td>San Francisco Fleet Yards</td>
<td>Aug 2245</td>
<td>Uprated (MOD-2) - May 2252</td>
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<tr>
<td>Enterprise</td>
<td>NCC-1701</td>
<td>San Francisco Fleet Yards</td>
<td>Sep 2245</td>
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<tr>
<td>Farragut</td>
<td>NCC-1702</td>
<td>San Francisco Fleet Yards</td>
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<td>Lexington</td>
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<td>Yorktown</td>
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<td>Excalibur</td>
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<td>Exeter</td>
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<td>Intrepid</td>
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<td>Valiant</td>
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<td>Kongo</td>
<td>NCC-1710</td>
<td>Baikonur Cosmodrome</td>
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<td>Potempkin</td>
<td>NCC-1711</td>
<td>Baikonur Cosmodrome</td>
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4 CONSTITUTION TYPE CLASS [BATCH 2] (CA)

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<tr>
<td>America</td>
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<td>San Francisco Fleet Yards</td>
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<td>Constellation</td>
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<tr>
<td>Yamato</td>
<td>NCC-1305-A</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Jan 2249</td>
<td>Uprated (MOD-2) - Nov 2251</td>
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</tbody>
</table>
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-1) - DORSAL VIEW

Vessel’s Commissioned Name
Navigation Lights (P/S)
Primary Hull
PB-31 Primary Warp Engine (P/S)
Aft MK-VII Phase Lasers
Shuttlebay
Emergency Flush Vents (P/S)
PB-31 Paired Intercooler (P/S)

Star Fleet Registrar ID

Airlock Lift, Lifeboat Launch x2 (P/S)
Midship MK-VII Phase Lasers (P/S)
IPI86E Impulse Engine
PB-31 Bussard Matter Intake (p/S)
Hydrogen Intake Sensor

GENERAL PLANS
Heavy Cruiser [CA] (MOD-1)
Constitution Class Starship (Circa 2245 STC)
For General Familiarization Purposes Only

AUTHENTICATION NOTICE
Chief of Design
Matt Jefferies
Authentication Approval
Dec 2245 STC
Version Release
Jul 2290 STC
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS [MOD-1] - PARTICULARS

DIMENSIONS
Raw Deadweight: 190,000 STD. Metric Tons
Overall Length: 289M
Overall Draft: 73M
Overall Beam: 127M

COMPLEMENT
Complement: 170 Crew, 40 Officers
Embarked Craft:
  4 Type III Travel Pod
  4 Type S-1 “Bee” Workpod
  8 Type E Shuttlecraft

MACHINERY
Primary Drive:
  2 PB-31 M/AM Dilithium Focus Warp Nacelle (Tandem)
Secondary Drive:
  Scarbak IPI86E Fusion Impulse Reactor
Reaction Control System:
  Orage Ijek “ASAKS” Chemical RCS
Superluminal Velocity Rating: WF 6/8, (216C / 512C)
Subluminal Velocity Rating: .50C / .75C
Operational Range: 3 Standard Years
Maximum Range: 9 Standard Years

DEFENSE SYSTEMS
Primary Shield
  Raakuv “Gabriel” Hull-Ambient Primary Generator
Deflector Screen
  Prentice-Schaefer “Jenghiz” Navigation Deflector

WEAPONRY
Photon Torpedoes:
  2 FP-3 Type launcher
    (Firing Arcs: Forward)
  100 MK III “Awalt” Type Torpedoes.
  12 MK IV “Smauge” Type Tri-Cobalt Detonators
  20 MK III “Basenji” Type Sensor Probes
Beam Weaponry:
  4 Banks paired “Tesla” Type MK VII Phase Laser Cannon
    (Firing Arcs: V/F, F/P, F/S, A)
  2 “Gravnet” Type Graviton Tractor Beam Emitters
    (Firing Arcs: V/F, A)

DETECTION SYSTEMS
Scanners:
  Signal Electronic Ent. “Grayfox” Tactical Scanner Suite
  Signal Electronic Ent. “Saber” Fire Control System
Sensors:
  Signal Electronic Ent. “Lynx” Sensor System

CONTROL SYSTEMS
Navigation systems:
  Thomson CSF “Gargon” Type Navigational Guidance System
Computer Systems:
  Farranti Nemonics “Daystrom” Duotronic MK II Core
  Cristobal “Coraza” Advanced Life Support System

OPERATIONAL PROGRAM
Chief of Design:
  Matt Jefferies
Programs:
  Batch 1 vessels completed Jan 2248 STC.
  Batch 2 additional vessels completed Jan 2249 STC.

Modernization:
Beginning in 2251, the entire class was uprated to [MOD-2] specifications, primarily for the replacement of the PB-31 engines with uprated PB-31 (MOD-2) engines. This modernization was completed on the 16 Constitution Class vessels in Dec 2251, with the relaunch of the USS Constitution [NCC-1017]. Specifics of this modernization can be found in the “Constitution Class Starships (Mod-2)” article.

Operational:
Class Has been modernized to Constitution class [MOD-2] As of Dec 2251. As such, the information in this article is technically obsolete and remains for archival purposes as of Dec 2251.

Batch 2:
  Additional Appropriation of September 2246
  First of Batch (USS Kitty Hawk) launched Aug 2248.
  (Note that Batch 2 is functionally identical to Batch 1)

Reappropriations:
  Registries NCC-1015 thru NCC-1017 inclusive reassigned from Columbia class starships.

Losses:
  Refer to Constitution Class [MOD-2]
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-2)

BACKGROUND

Even as the fielded Constitution class vessels returned from their first or second tours of duty, refinements in the construction and design of the PB-31 engines continued. Already impressed with the dramatic improvements of the engine design, Star Fleet actively encouraged experiments for improvements in both output and efficiency.

By 2251, a more refined version of the PB-31 (the PB-31/Mod 2) was available for use in Star Fleet, and what better class of ship to install them on than the wildly successful Constitution class. Every ship in the class was ordered for uprating to the new engines as soon as their current tours were over, a task which would be completed within a year.

Though the uprating of the Constitution class was mandatory, the actual effects of the MOD-2 uprating were, at first, relatively minor. The PB-31 Mod 2 design was mostly an efficiency improvement, allowing for more stability at higher warp speeds, as well as subtle improvements in the intercooler assemblies at the aft of each nacelle.

Indeed, the uprating to the new "Starmark" type celestial navigation computer, which was created to coincide with the new engines, proved to be more of a boon, since the older "Gargon" type sometimes struggled to keep up with the Constitution class' highest warp speeds.

The most dramatic improvement, perhaps, on the MOD-2 design would come during the Four Years War, with the advent of a workable phaser weapon. Though technically a modernization within the MOD-2 design period, the MK-IX/01 phaser would dramatically change the Federation's offensive capabilities, putting the Star Fleet well and ahead of most of the Federation's adversaries, and proving a decisive advantage at the Battle of Axanar in 2256 STC.

Unfortunately, the Four Years War would also see the first losses to the class. First, the Valiant was destroyed in an ambush while guarding a supply convoy. The Valiant's crew sacrificed themselves to save the thousands of lives in the convoy, and technically won the battle, but also marked the first loss of the new generation of starships.

Three months later, in a more pitched battle, the Federation would go on to lose the starships Kitty Hawk and America, a devastating blow which briefly but dramatically set back Federation operations. With their losses, Star Fleet became nervous about risking the most valuable of their ships in open warfare, and dispatched the remaining Constitution class vessels to other duties in the frontier for the remainder of the war.

Despite this moment of indignity, the Constitution class had already proven itself as a powerful battle-ready starship, and the Klingons had learned to fear them. Klingon raiding forces would avoid encounters where a Constitution class starship would be present, allowing the Federation to solidly secure its frontier even as war continued along the border.

Surviving Constitution class vessels would remain in this configuration for more than a decade, as the war's end also brought an end to the rapid development of starship technology. Further refinements to the PB-31, however, along with a radical improvement in deflector technology, would see the class uprated once again to the MOD-3 configuration in the 2260s.

MODERNIZATION PROGRAM

<table>
<thead>
<tr>
<th>Name</th>
<th>Registry</th>
<th>Construction Facility</th>
<th>Launched</th>
<th>Status</th>
</tr>
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<tbody>
<tr>
<td>Constitution</td>
<td>NCC-1701</td>
<td>San Francisco Fleet Yards</td>
<td>May 2252 (Class Ship)</td>
<td>Uprated (MOD-3) - May 2264</td>
</tr>
<tr>
<td>Enterprise</td>
<td>NCC-1701</td>
<td>San Francisco Fleet Yards</td>
<td>Oct 2251</td>
<td>Uprated (MOD-3) - Feb 2265</td>
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<tr>
<td>Farragut</td>
<td>NCC-1702</td>
<td>San Francisco Fleet Yards</td>
<td>Oct 2251</td>
<td>Uprated (MOD-3) - Oct 2264</td>
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<tr>
<td>Lexington</td>
<td>NCC-1703</td>
<td>Utopia Planitia Fleet Yards</td>
<td>May 2252</td>
<td>Uprated (MOD-3) - May 2264</td>
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<tr>
<td>Yorktown</td>
<td>NCC-1704</td>
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<td>Uprated (MOD-3) - May 2264</td>
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<td>Excalibur</td>
<td>NCC-1705</td>
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<td>Destroyed—Jun 2255</td>
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<td>Kongo</td>
<td>NCC-1710</td>
<td>Baikonur Cosmodrome</td>
<td>Sep 2251</td>
<td>Destroyed—Sep 2255</td>
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<tr>
<td>Potempkin</td>
<td>NCC-1711</td>
<td>Baikonur Cosmodrome</td>
<td>Nov 2251</td>
<td>Destroyed—Sep 2255</td>
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<td>America</td>
<td>NCC-1016</td>
<td>San Francisco Fleet Yards</td>
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<td>Destroyed—Sep 2255</td>
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<td>Yamato</td>
<td>NCC-1305-A</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Nov 2251</td>
<td>Destroyed—Sep 2255</td>
</tr>
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STATUS

- Uprated (MOD-3)
- Destroyed
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-2) - DORSAL VIEW

GENERAL PLANS
Heavy Cruiser [CA] (MOD-2)
Constitution Class Starship (Circa 2255 STC)
For General Familiarization Purposes Only

AUTHENTICATION NOTICE
Chief of Design
Matt Jefferies
Authentication Approval
Dec 2252 STC
Version Release
Jul 2290 STC
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-2) - PORT VIEW

Primary Bridge, Photo-Reactive Upper Bridge Dome, IPI86E Linear Accelerator, PB-31 Primary Warp Engine (P/S), FP-3 Twin Photon Torpedo Launcher (P/S), Main Gangway, MK-IX/01 Phasers (P/S), Sensor Array, Forward Active Scanner and Deflector, Intermix Core Ejection system, Star Fleet Pennant, Star Fleet Registrar ID, Shuttlebay

GENERAL PLANS
Heavy Cruiser [CA] (MOD-2)
Constitution Class Starship (Circa 2245 STC)
For General Familiarization Purposes Only

AUTHENTICATION NOTICE
Chief of Design: Matt Jefferies
Authentication Approval: Dec 2245 STC
Version Release: Jul 2290 STC
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-2) - PARTICULARS

DIMENSIONS
Raw Deadweight: 190,000 STD. Metric Tons
Overall Length: 289M
Overall Draft: 73M
Overall Beam: 127M

COMPLEMENT
Complement: 170 Crew, 40 Officers
Embarked Craft:
4 Type III Travel Pod
4 Type S-1 “Bee” Workpod
8 Type E Shuttlecraft

MACHINERY
Primary Drive:
2 PB-31/M2 M/AM Dilithium-Focus Warp Nacelle (Tandem)
Secondary Drive:
Scarbak IPI86E Fusion Impulse Reactor
Reaction Control System:
Oraje Ijek “ASAKS” Chemical RCS
Superluminal Velocity Rating: WF 6/8, (216C / 512C)
Subluminal Velocity Rating: .50C/.75C
Operational Range: 3 Standard Years
Maximum Range: 9 Standard Years

DEFENSE SYSTEMS
Primary Shield
Raakuv “Gabriel” Hull-Ambient Primary Generator
Deflector Screen
Prentice-Schafer “Jenghiz” Navigation Deflector

WEAPONRY
Photon Torpedoes:
2 FP-3 Type launcher
(Firing Arcs: Forward)
100 MK III “Awalt” Type Torpedoes.
12 MK IV “Smauge” Type Tri-Cobalt Detonators
20 MK III “Basenji” Type Sensor Probes

Beam Weapon [Original]:
4 Banks paired “Tesla” Type MK VII Phase Laser Cannon
(Firing Arcs: V/F, F/P, F/S, A)
2 “Gravnet” Type Graviton Tractor Beam Emitters
(Firing Arcs: V/F, A)

Beam Weaponry [2253 Modernization]:
4 Banks paired “Fire lance” Type MK-IX/01 Phaser Cannon
(Firing Arcs: V/F, F/P, F/S, A)
2 “Gravnet” Type Graviton Tractor Beam Emitters
(Firing Arcs: V/F, A)

DETECTION SYSTEMS
Scanners:
Signal Electronic Ent. “Grayfox” Tactical Scanner Suite
Signal Electronic Ent. “Saber” Fire Control System

Sensors:
Signal Electronic Ent. “Bobcat” Sensor System

CONTROL SYSTEMS
Navigation systems:
Benkulen “Starmark” Type Navigational Guidance System
Computer Systems:
Fananti Nemonics “Daystrom” Duotronic MK II Core
Life Support Package:
Cristobal “Coraza” Advanced Life Support System

OPERATIONAL PROGRAM
Chief of Design:
Matt Jefferies

Programs:
Modernization completed July 2251 STC.

Modernization:
In Apr 2253, the MK-IX/01 “Fire lance” type Phaser was introduced to the class, replacing the “Tesla” type MK VII Phase Laser Cannon. Changes were made ‘in the field’ at the first possible opportunity for each starship, and made use of the older weapon’s existing housing. This ‘field modernization’ was completed for the class by the end of Jun 2253.

Beginning in 2264, surviving members of the class were uprated to (MOD-3) specifications, primarily for the replacement of the PB-31 engines with uprated PB-31 (MOD-3) engines and well as a more radical uprating to the shield deflector system. This modernization was completed on the these vessels in Dec 2265, with the relaunch of the USS Exeter (NCC-1706). Specifics of this modernization can be found in the “Constitution Class Starships (Mod-3)” article.

Operational:
Class Has been modernized to Constitution class (MOD-3) as of March 2265. As such, the information in this article is technically obsolete and remains for archival purposes as of March 2265.

Batch 1:
First of Class (USS Valiant) launched Jul 2251.
PB-31 Mod 2 Modernization Jul 2251
MK-IX/01 Phaser Modernization April 2253

Reappropriations:
None

Losses:
USS Valiant (NCC-1709) lost in battle Jun 2255 STC.
USS Kitty Hawk (NCC-1015) lost in battle Sep 2255 STC.
USS America (NCC-1016) lost in battle Sep 2255 STC.
Refer to Constitution Class (MOD-3)
BACKGROUND

Though the Four Years War didn’t come as much of a surprise to Star Fleet, the Federation none-the-less found itself sorely lacking in combat capabilities when compared to the powerful navy of the Klingon Empire. What was worse, most of the fleet consisted of older Earth vessels which had not yet taken advantage of the new matter/anti-matter drive systems.

To answer this wartime shortcoming, Star Fleet quickly rushed up the appropriation of a planned additional batch of Constitution class vessels and dedicated them as a new class of starship, the BonHomme Richard class. The new class would take advantage in interim improvements in both shield and deflector technology, as well as make use of the new phaser technology, making the vessels top-of-the-line for combat performance.

The needs of the war, however, also saw the BonHomme Richard class nearly completely stripped of scientific laboratories, and many other amenities found on the venerable Constitution class ships. This would, of course, allow the vessels to be pressed into service immediately, but fall short of the capabilities found in the mother design.

Through the war, the ships of the BonHomme Richard class did more than prove themselves, as they proved instrumental in several skirmishes along the disputed frontier (particularly after the Constitution class vessels were moved out of the war zone). The new shields and phasers matched and surpassed the weaponry and defenses of the Klingon ships of the period. In fact, the new shields proved so successful that they would provide the impetus for the next evolution of the Constitution class itself.

The end of the war, however, brought difficulties with the class, as she was ill-equipped for much use aside from direct combat, and her expense was hard to justify to a ‘return-to-peace’ political mindset. Star Fleet found itself heavily engaged in a protracted series of debates over the BonHomme Richard’s eventually fate. The last four planned ships of the class (NCC-1728 thru NCC-1731) would be cancelled and eventually re-appropriated.

Eventually, the ships of the class would be outfitted in a manner similar to the Constitution class, making the two classes virtually identical (aside from her deflection grid) for several years. BonHomme Richard class vessels, however, would still be seen as the ‘also ran’ ships, with the Constitution class gaining much of the prestige in the 2250s and 2260s.

Fortunately, this lack of prestige would not end the lifespan of these vessels. In the early 2260s, as the Monoceros testing of the new Linear Warp engines proved successful, several vessels of this class would be reconfigured to include the new drive, creating the Endeavor class in August 2263.

The remaining ships of the class would get their turn at upgrading a decade later, as Star Fleet once again found itself needing to technologically upgrade their vessels. In 2272, surviving vessels of the BonHomme Richard class would undergo the same upgrading as the legendary Constitution and Enterprise, bringing the variant design finally back into the fold as members of the Constitution (U) class.

16 BONHOMME RICHARD TYPE CLASS (BATCH 1) [CA]

<table>
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<td>Monitor</td>
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<td>San Francisco Fleet Yards</td>
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<td>Excelsior</td>
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<td>NCC-1720</td>
<td>Utopia Planetia Fleet Yards</td>
<td>Apr 2252</td>
<td>Destroyed - Sep 2263</td>
</tr>
<tr>
<td>Wasp</td>
<td>NCC-1721</td>
<td>Copernicus Ship Yards</td>
<td>Apr 2252</td>
<td>Destroyed - Sep 2263</td>
</tr>
<tr>
<td>El Dorado</td>
<td>NCC-1722</td>
<td>San Francisco Fleet Yards</td>
<td>May 2252</td>
<td>Destroyed - Jul 2255</td>
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<tr>
<td>Ari</td>
<td>NCC-1723</td>
<td>San Francisco Fleet Yards</td>
<td>May 2252</td>
<td>Destroyed - Sep 2263</td>
</tr>
<tr>
<td>Saratoga</td>
<td>NCC-1724</td>
<td>Copernicus Ship Yards</td>
<td>Aug 2252</td>
<td>Destroyed - Oct 2263</td>
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<tr>
<td>Tori</td>
<td>NCC-1725</td>
<td>San Francisco Fleet Yards</td>
<td>Aug 2252</td>
<td>Destroyed - Jul 2255</td>
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<tr>
<td>Kreiger</td>
<td>NCC-1726</td>
<td>Baikonur Cosmodrome</td>
<td>Oct 2252</td>
<td>Destroyed - Sep 2263</td>
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<tr>
<td>Essex</td>
<td>NCC-1727</td>
<td>Baikonur Cosmodrome</td>
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<td>Destroyed - Feb 2255</td>
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16 BONHOMME RICHARD TYPE CLASS (BATCH 1) [CA]

<table>
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<th>Registry</th>
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<tr>
<td>BonHomme Richard</td>
<td>NCC-1712</td>
<td>San Francisco Fleet Yards</td>
<td>Nov 2251 (Class Ship)</td>
<td>Uprated (Constitution (U)) - May 2272</td>
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<tr>
<td>Monitor</td>
<td>NCC-1713</td>
<td>San Francisco Fleet Yards</td>
<td>Nov 2251</td>
<td>Uprated (Constitution (U)) - May 2272</td>
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<td>Hornet</td>
<td>NCC-1714</td>
<td>Baikonur Cosmodrome</td>
<td>Dec 2251</td>
<td>Uprated (Constitution (U)) - May 2272</td>
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<tr>
<td>Merrimac</td>
<td>NCC-1715</td>
<td>San Francisco Fleet Yards</td>
<td>Jan 2252</td>
<td>Uprated (Endeavor) - Jun 2272</td>
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<tr>
<td>Endeavor</td>
<td>NCC-1716</td>
<td>San Francisco Fleet Yards</td>
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<td>Uprated (Endeavor) - Aug 2263</td>
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<td>Defiance</td>
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<td>Utopia Planetia Fleet Yards</td>
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<tr>
<td>Excelsior</td>
<td>NCC-1718</td>
<td>Utopia Planetia Fleet Yards</td>
<td>Mar 2252</td>
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<tr>
<td>Eagle</td>
<td>NCC-1719</td>
<td>Baikonur Cosmodrome</td>
<td>Apr 2252</td>
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<tr>
<td>Lafayette</td>
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<td>Wasp</td>
<td>NCC-1721</td>
<td>Copernicus Ship Yards</td>
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<tr>
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<td>San Francisco Fleet Yards</td>
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<td>Saratoga</td>
<td>NCC-1724</td>
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<td>Tori</td>
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<td>San Francisco Fleet Yards</td>
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<td>Kreiger</td>
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<td>Essex</td>
<td>NCC-1727</td>
<td>Baikonur Cosmodrome</td>
<td>Nov 2252</td>
<td>Destroyed - Feb 2255</td>
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</table>
GENERAL PLANS

Heavy Cruiser [CA]
BonHomme Richard Class Starship (Circa 2255 STC)
For General Familiarization Purposes Only

AUTHENTICATION NOTICE

Chief of Design  Matt Jefferies
Authentication Approval  Dec 2254 STC
Version Release  Jul 2290 STC
FEDERATION HEAVY CRUISER
BONHOMME RICHARD STARSHIPS - PORT VIEW

Primary Bridge
Photo-Reactive Upper Bridge Dome
IPI86E Linear Accelerator
PB-31 Primary Warp Engine (P/S)

FP-3 Twin Photon Torpedo Launcher (P/S)
Main Gangway
MK-IX/01 Phasers (P/S)
Sensor Array
Forward Active Scanner and Deflector
Intermix Core Ejection system
Star Fleet Pennant

Deflector Grid
Shuttlebay
Star Fleet Registrar ID

GENERAL PLANS

Heavy Cruiser [CA]
BonHomme Richard Class Starship (Circa 2255 STC)
For General Familiarization Purposes Only

AUTHENTICATION NOTICE

Chief of Design
Authentication Approval
Version Release
Matt Jefferies
Dec 2254 STC
Jul 2290 STC
FEDERATION HEAVY CRUISER
BONHOMME RICHARD CLASS STARSHIPS - PARTICULARS

DIMENSIONS
Raw Deadweight: 185,000 STD. Metric Tons
Overall Length: 289M
Overall Draft: 73M
Overall Beam: 127M

COMPLEMENT
Complement: 170 Crew, 40 Officers
Embarked Craft:
4 Type III Travel Pod
4 Type S-1 “Bee” Workpod
8 Type E Shuttlecraft

MACHINERY
Primary Drive:
2 PB-31/M2 M/AM Dilithium-Focus Warp Nacelle (Tandem)
Secondary Drive:
Scarbak IPI86E Fusion Impulse Reactor
Reaction Control System:
Oraje Ijek “ASAKS” Chemical RCS
Superluminal Velocity Rating: WF 6/8, (216C / 512C)
Subluminal Velocity Rating: .50C / .75C
Operational Range: 3 Standard Years
Maximum Range: 9 Standard Years

DEFENSE SYSTEMS
Primary Shield
Prentice-Schafer “Galahad” Primary Shield Generator
Deflector Screen
Prentice-Schafer “Jenghiz II” Navigation Deflector

WEAPONRY
Photon Torpedoes:
2 FP-3 Type launcher
(Firing Arcs: Forward)
100 MK III “Awalt” Type Torpedoes.
12 MK IV “Smauge” Type Tri-Cobalt Detonators
20 MK III “Basenji” Type Sensor Probes
Beam Weaponry:
4 Banks paired “Firelance” Type MK-IX/01 Phaser Cannon
(Firing Arcs V/F, F/P, F/S, A)
2 “Gravnet” Type Graviton Tractor Beam Emitters
(Firing Arcs: V/F, A)

DETECTION SYSTEMS
Scanners:
Signal Electronic Ent. “Grayfox” Tactical Scanner Suite
Signal Electronic Ent. “Saber” Fire Control System
Sensors:
Signal Electronic Ent. “Bobcat” Sensor System

CONTROL SYSTEMS
Navigation systems:
Benkulen “Starmark” Type Navigational Guidance System
Computer Systems:
Farranti Nemonics “Daystrom” Duotronic MK II Core
Life Support Package:
Cristobal “Coraza” Advanced Life Support System

OPERATIONAL PROGRAM
Chief of Design:
Matt Jefferies
Programs:
Class Completed as of November 2252

Modernization:
Beginning in 2263, selected vessels deemed in ‘serious condition’ were uprated to Endeavor class specifications. These vessels include the Endeavor (NCC-1716), the Excelsior (NCC-1718), Eagle (NCC-1719), Lafayette (NCC-1720), Wasp (NCC-1721), Ari (NCC-1723), and Tori (NCC-1725). This uprating procedure was completed in September 2263.

Beginning in 2272, surviving ships of the BonHomme Richard class were uprated to Constitution (U) class specifications. These included the BonHomme Richard (NCC-1712), Monitor (NCC-1713), Hornet (NCC-1714), Merrimac (NCC-1715), El Dorado (NCC-1722), and Kreiger (NCC-1726). This uprating procedure was completed in June 2272.

Operational:
Class has been modernized to either Endeavor or Constitution (U) class as of June 2272. As such, the information in this article is technically obsolete and remains for archival purposes as of Jun 2272.

Batch 1:
First of Class (USS BonHomme Richard) launched Nov 2251.

Reappropriations:
Registries NCC-1728 thru NCC-1731 inclusive reassigned to Truxton class starships.

Losses:
USS Defiance (NCC-1717) lost in battle Jun 2255 STC.
USS Saratoga (NCC-1724) lost in battle Jul 2255 STC.
USS Essex (NCC-1727) lost in battle Feb 2255 STC.
Refer to Endeavor, Constitution (U) Classes
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-3)

BACKGROUND
It is perhaps telling that even after nearly thirty years since this version of the Constitution class first left space dock in 2264, the majority of Federation citizens still regard it as the most important and recognizable of all Federation starships. Indeed, thanks to the profound exploits of ships like the Enterprise under the command of James Kirk, the class quickly assumed a legendary reputation far surpassing that of any other class of ship in Federation, or even member-planet histories.

This version of the ship would represent the pinnacle of 2260s technology, pushing the PB-31 engine design to its upper efficient limits, well beyond its intended specifications of WF 8 as a maximum velocity. The Enterprise herself would hit a speed record of warp 14.1 (2803c) [though this was through sabotage and nearly destroyed the vessel], a record which wouldn’t be met again until the advent of the Excelsior class decades later.

The “Galahad” shield generators first used on the BonHomme Richard class were finally inlaid into the vessels’ frame, improving the ships’ overall survivability in the field. The improved efficiency and yield of the MK IX/02 phasers also meant that the Constitution class now carried the most potent beam weapon of all major galactic powers at the time, surpassing even the Klingon disruptors of the period.

Even what would normally be considered a subtle improvement, such as those in life support systems, would radically increase the ships’ capabilities. The Mod-3 design could carry and support twice the crew of the Mod-2 design, and allow for a wider array of missions [particularly scientific endeavors] and for much longer durations. It was this improvement that would embolden Star Fleet to start the ‘five year mission’ exploration tradition, which lives on to this day.

Unfortunately, the aggressive exploration of the Federation, using the Constitution class as its vanguard, would take its toll in the middle 2260s. Six of the vessels would be lost to various dangers in the frontier, with the Defiant lost near Tholian space not even two years out of space dock. For many on the Federation appropriations committee, this was a clear sign that despite the stunning success of ships like the Enterprise, the heavy cruiser design had finally seen its day.

Recognizing this fact, Star Fleet engineers would look at the basic successes of the venerable Constitution class, as well as other Federation ships, and redesign the heavy cruiser from the ground up. The end result of this project would be the Constitution (U) class, which would launch in November of 2271, giving the old heavy cruisers a substantial new lease on life.

MODERNIZATION PROGRAM

<table>
<thead>
<tr>
<th>Name</th>
<th>Registry</th>
<th>Construction Facility</th>
<th>Launched</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constitution</td>
<td>NCC-1700</td>
<td>San Francisco Fleet Yards</td>
<td>May 2264</td>
<td>Upgraded (Constitution (U))</td>
</tr>
<tr>
<td>Enterprise</td>
<td>NCC-1701</td>
<td>San Francisco Fleet Yards</td>
<td>Feb 2265</td>
<td>Upgraded (Constitution (U))</td>
</tr>
<tr>
<td>Farragut</td>
<td>NCC-1702</td>
<td>San Francisco Fleet Yards</td>
<td>Oct 2264</td>
<td>Upgraded (Constitution (U))</td>
</tr>
<tr>
<td>Lexington</td>
<td>NCC-1703</td>
<td>Utopia Planitia Fleet Yards</td>
<td>May 2264</td>
<td>Upgraded (Constitution (U))</td>
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<tr>
<td>Yorktown</td>
<td>NCC-1704</td>
<td>Utopia Planitia Fleet Yards</td>
<td>May 2264</td>
<td>Upgraded (Constitution (U))</td>
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<tr>
<td>Excalibur</td>
<td>NCC-1705</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Feb 2265</td>
<td>Upgraded (Constitution (U))</td>
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<tr>
<td>Exeter</td>
<td>NCC-1706</td>
<td>Copernicus Ship Yards</td>
<td>Mar 2265</td>
<td>Destroyed - Apr 2267</td>
</tr>
<tr>
<td>Hood</td>
<td>NCC-1707</td>
<td>San Francisco Fleet Yards</td>
<td>Sep 2264</td>
<td>Scrapped - Aug 2266</td>
</tr>
<tr>
<td>Intrepid</td>
<td>NCC-1708</td>
<td>Copernicus Ship Yards</td>
<td>Jun 2264</td>
<td>Destroyed - May 2266</td>
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<tr>
<td>Kongo</td>
<td>NCC-1710</td>
<td>Baikonur Cosmodrome</td>
<td>Nov 2264</td>
<td>Destroyed - Jan 2272</td>
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<tr>
<td>Potempkin</td>
<td>NCC-1711</td>
<td>Baikonur Cosmodrome</td>
<td>Dec 2264</td>
<td>Destroyed - May 2267</td>
</tr>
<tr>
<td>Constellation</td>
<td>NCC-1017</td>
<td>San Francisco Fleet Yards</td>
<td>Jan 2265</td>
<td>Destroyed - Mar 2268</td>
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<tr>
<td>Yamato</td>
<td>NCC-1305-A</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Jan 2265</td>
<td>Destroyed - Mar 2268</td>
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5 CONSTITUTION TYPE CLASS (BATCH 3) [CA]

<table>
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<tr>
<th>Name</th>
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<td>Victory</td>
<td>NCC-1760</td>
<td>San Francisco Fleet Yards</td>
<td>Apr 2266</td>
<td>Upgraded (Constitution (U))</td>
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<td>Ardent</td>
<td>NCC-1761</td>
<td>San Francisco Fleet Yards</td>
<td>Apr 2266</td>
<td>Upgraded (Constitution (U))</td>
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<td>Dauntless</td>
<td>NCC-1762</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Jun 2266</td>
<td>Upgraded (Constitution (U))</td>
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<tr>
<td>Audacious</td>
<td>NCC-1763</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Aug 2266</td>
<td>Destroyed - Jul 2272</td>
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<tr>
<td>Defiant</td>
<td>NCC-1764</td>
<td>Utopia Planitia Fleet Yards</td>
<td>Aug 2266</td>
<td>Missing - Jun 2268</td>
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FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-3) - DORSAL VIEW

Vessel's Commissioned Name
Navigation Lights (P/S)
Primary Hull
PB-31 Mod 3 Primary Warp Engine (P/S)
PB-31 Bussard Matter Intake (P/S)

Star Fleet Registrar ID
Deflector Grid
Midship MK IX/02 Phasers (P/S)
IPI86E Impulse Engine

Airlock Lift, Lifeboat Launch x2 (P/S)
Emergency Flush Vents (P/S)
Shuttlebay

PB-31 Mod 3 Paired Intercooler (P/S)
Aft MK IX/02 Phasers

AUTHENTICATION NOTICE

General Plans
Heavy Cruiser [CA] (MOD-3)
Constitution Class Starship (Circa 2265 STC)
For General Familiarization Purposes Only

Authentication Notice
Chief of Design: Matt Jefferies
Authentication Approval: Dec 2265 STC
Version Release: Jul 2290 STC
Federation Heavy Cruiser
Constitution Class Starships (MOD-3) - Port View

General Plans
Heavy Cruiser [CA] (MOD-3)
Constitution Class Starship (Circa 2265 STC)
For General Familiarization Purposes Only

Authentication Notice
Chief of Design  Matt Jefferies
Authentication Approval  Dec 2265 STC
Version Release  Jul 2290 STC
FEDERATION HEAVY CRUISER
CONSTITUTION CLASS STARSHIPS (MOD-3) - PARTICULARS

DIMENSIONS
Raw Deadweight: 190,000 STD. Metric Tons
Overall Length: 289M
Overall Draft: 73M
Overall Beam: 127M

COMPONENT
Complement: 387 Crew, 43 Officers
Embarked Craft:
- 4 Type III Travel Pod
- 4 Type S-2 “Bee” Workpod
- 8 Type F Shuttlecraft

MACHINERY
Primary Drive:
- 2 PB-31/M3 M/AM Dilithium-Focus Warp Nacelle (Tandem)
Secondary Drive:
- Scarbak IPI86E Fusion Impulse Reactor

Reaction Control System:
- Orage Ijek “ASAKS” Chemical RCS

Superluminal Velocity Rating: WF 6/8, (216C / 512C)
Subluminal Velocity Rating: .50C / .75C
Operational Range: 5 Standard Years
Maximum Range: 10 Standard Years

DEFENSE SYSTEMS
Primary Shield
- Prentice-Schaffer “Galahad” Primary Shield Generator
Deflector Screen
- Prentice-Schaffer “Jenghiz II” Navigation Deflector

WEAPONRY
Photon Torpedoes:
- 2 FP-3 Type launcher (Firing Arcs: Forward)
- 100 MK III “Avalon” Type Torpedoes.
- 12 MK IV “Smaug” Type Tri-Cobalt Detonators
- 20 MK III “Basenji” Type Sensor Probes

Beam Weaponry:
- 4 Banks paired “Firelane” Type MK-IX/01 Phaser Cannon (Firing Arcs: V/F, F/P, F/S, A)
- 2 “Gravnet” Type Graviton Tractor Beam Emitters (Firing Arcs: V/F, A)

DETECTION SYSTEMS
Scanners:
- Signal Electronic Ent. “Grayfox” Tactical Scanner Suite
- Signal Electronic Ent. “Saber” Fire Control System

Sensors:
- Signal Electronic Ent. “Bobcat” Sensor System

CONTROL SYSTEMS
Navigation systems:
- Benkulen “Starmark” Type Navigational Guidance System

Computer Systems:
- Farranti Nemonics “Daystrom” Duotronic MK III Core
- Cristobal “Escudo” Advanced Life Support System

OPERATIONAL PROGRAM
Chief of Design:
- Matt Jefferies

Programs:
- Modernization completed July 2251 STC.

Modernization:
Beginning in 2271, surviving members of the class were uprated to Constitution (U) specifications, a design change so radical that it effectively restarted the heavy cruiser program. This modernization was completed on the these vessels in Dec 2265, with the relaunch of the USS Audacious (NCC-1763). Specifics of this modernization can be found in the “Constitution Class (U)”. article.

Operational:
Class has been modernized to Constitution class (U) as of July 2272. As such, the information in this article is technically obsolete and remains for archival purposes as of July 2272.

Batch 1:
- First of Class (USS Constitution) launched May 2264.

Batch 3:
- First of Class (USS Victory) launched Apr 2266

Reappropriations:
- Registries NCC-1760 thru NCC-1764 inclusive reassigned from Achernar class starships.

Losses:
- USS Excalibur (NCC-1705) lost to malfunction Apr 2267 STC.
- USS Exeter (NCC-1706) scrapped Aug 2266 STC.
- USS Intrepid (NCC-1708) lost in battle May 2266 STC.
- USS Constellation (NCC-1017) lost in battle May 2267 STC
- USS Yamato (NCC-1305-A) lost in battle Mar 2268 STC.
- USS Defiant (NCC-1764) missing Jun 2268

Refer to Constitution Class (U)