



1
00:00:09,650 --> 00:00:07,460
well NASA has a long history using

2
00:00:11,660 --> 00:00:09,660
barges but specifically Pegasus was

3
00:00:13,850 --> 00:00:11,670
built to support the transportation of

4
00:00:16,189 --> 00:00:13,860
the external tank for shuttle from

5
00:00:18,890 --> 00:00:16,199
Massoud assembly facility over to

6
00:00:22,670 --> 00:00:18,900
Kennedy Space Center the NASA Pegasus

7
00:00:25,189 --> 00:00:22,680
barge is a NASA asset we've had it since

8
00:00:26,720 --> 00:00:25,199
about the year 2000 when the

9
00:00:29,240 --> 00:00:26,730
requirements first came down from the

10
00:00:31,310 --> 00:00:29,250
Space Launch System and the big core

11
00:00:32,780 --> 00:00:31,320
stage it was obvious that we had to do

12
00:00:35,479 --> 00:00:32,790
something with our barge should be able

13
00:00:38,360 --> 00:00:35,489

to transport it so we've had to actually

14

00:00:41,150 --> 00:00:38,370

extend the barge by 50 feet because of

15

00:00:43,369 --> 00:00:41,160

the added weight and added length of the

16

00:00:44,990 --> 00:00:43,379

course stage over the external tank so

17

00:00:47,299 --> 00:00:45,000

we we've really saved about eight

18

00:00:49,700 --> 00:00:47,309

million dollars modifying the current

19

00:00:52,420 --> 00:00:49,710

barge versus going out and building a

20

00:00:55,939 --> 00:00:52,430

brand new barge Pegasus came to us

21

00:00:58,279 --> 00:00:55,949

needing to be lengthened we fabricated a

22

00:01:00,619 --> 00:00:58,289

hundred and sixty-five foot long plug

23

00:01:03,410 --> 00:01:00,629

section for the middle of the vessel we

24

00:01:06,140 --> 00:01:03,420

had the vessel retrieved two at our

25

00:01:07,940 --> 00:01:06,150

facility we put it up on JA dock we cut

26

00:01:10,280 --> 00:01:07,950

the vessel in half inserted the new

27

00:01:13,700 --> 00:01:10,290

section removed an old section and

28

00:01:15,679 --> 00:01:13,710

reattached all and all the structural

29

00:01:18,710 --> 00:01:15,689

systems all the mechanical systems all

30

00:01:20,960 --> 00:01:18,720

the electrical systems upgraded some of

31

00:01:24,260 --> 00:01:20,970

the generator power the switchboards

32

00:01:26,179 --> 00:01:24,270

main control centers so if we've we've

33

00:01:28,520 --> 00:01:26,189

done quite a bit of work to it so it's

34

00:01:31,670 --> 00:01:28,530

mission for the SLS core stage will be

35

00:01:34,010 --> 00:01:31,680

very similar shipping routes the way

36

00:01:37,429 --> 00:01:34,020

that we you know installed the the cargo

37

00:01:39,469 --> 00:01:37,439

all that is very similar to the external

38

00:01:41,420 --> 00:01:39,479

tank so we have the experience and the

39

00:01:44,690 --> 00:01:41,430

database to help us for with the core

40

00:01:46,670 --> 00:01:44,700

stage in modifying Pegasus we had to

41

00:01:48,590 --> 00:01:46,680

deal with a significant way to increase

42

00:01:49,999 --> 00:01:48,600

the external tank system weight

43

00:01:52,910 --> 00:01:50,009

approximately one hundred and thirty six

44

00:01:54,469 --> 00:01:52,920

thousand pounds for SLS core stage we

45

00:01:57,170 --> 00:01:54,479

have to accommodate approximately eight

46

00:01:59,480 --> 00:01:57,180

hundred thousand pounds and in fact it's