

Payload Plan

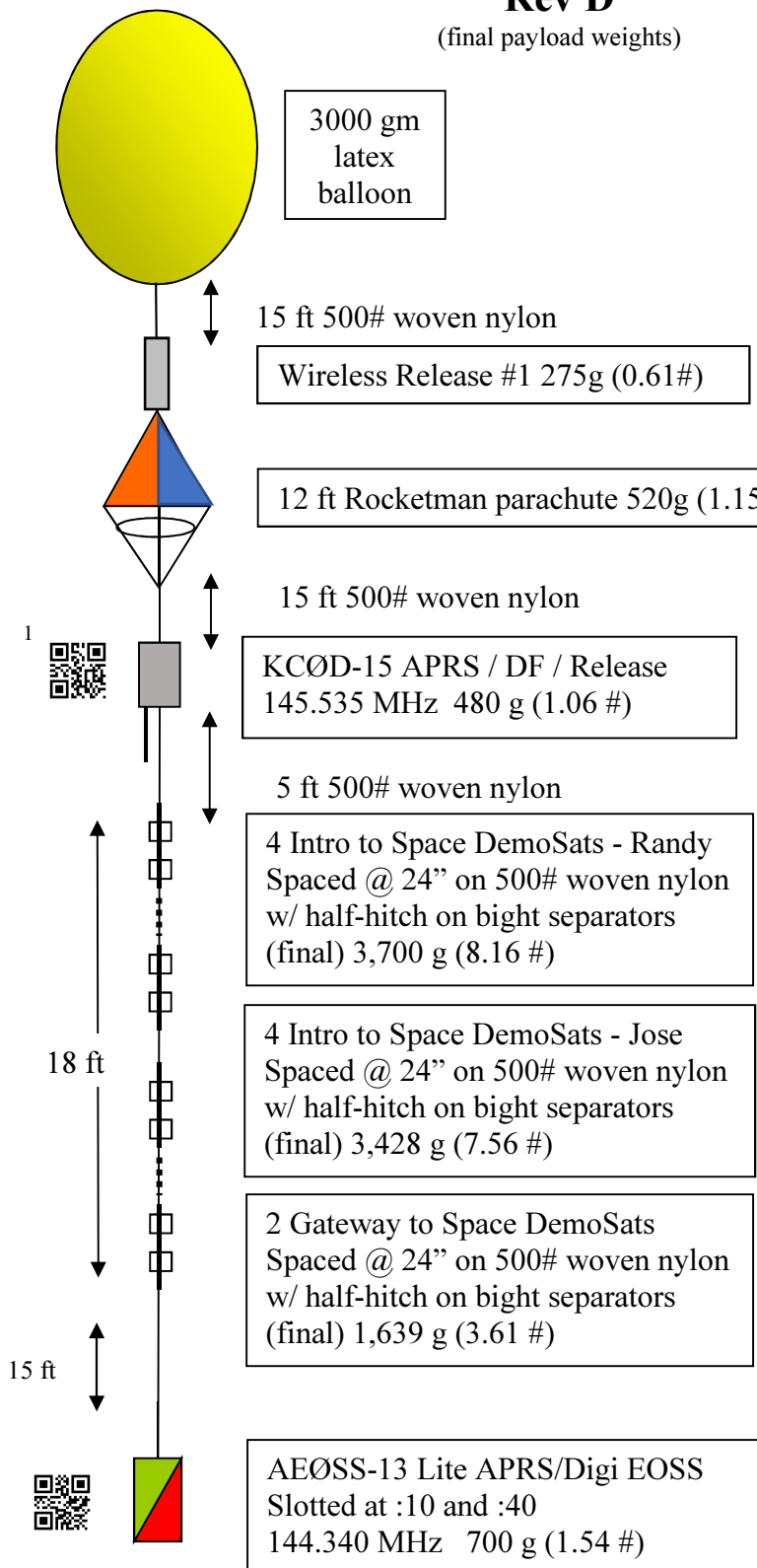
EOSS-273 Heavy

0715 MDT, 15 Apr 2018

Rev D

Wiggins, CO

(final payload weights)



3000 gm latex balloon

15 ft 500# woven nylon
Wireless Release #1 275g (0.61#)

12 ft Rocketman parachute 520g (1.15#)

15 ft 500# woven nylon
KCØD-15 APRS / DF / Release 145.535 MHz 480 g (1.06 #)

5 ft 500# woven nylon
4 Intro to Space DemoSats - Randy Spaced @ 24" on 500# woven nylon w/ half-hitch on bight separators (final) 3,700 g (8.16 #)

4 Intro to Space DemoSats - Jose Spaced @ 24" on 500# woven nylon w/ half-hitch on bight separators (final) 3,428 g (7.56 #)

2 Gateway to Space DemoSats Spaced @ 24" on 500# woven nylon w/ half-hitch on bight separators (final) 1,639 g (3.61 #)

AEØSS-13 Lite APRS/Digi EOSS Slotted at :10 and :40 144.340 MHz 700 g (1.54 #)

Item	Weight pounds	Weight kg
Student Payloads	19.33	8.767
EOSS Payloads	3.21	1.455
Parachute	1.15	0.520
Neck load	23.68	10.742
Balloon	6.61	3.000
Gross Weight	30.30	13.742
Gross Lift Factor	1.15	1.15
Neck Lift	28.23	12.801
H2 fill; scf (approx)	471	
Burst Altitude; kft km	102.8	31.3

www.wxqa.com/sss/balon1.cgi
KCØD-15 / EOSS-273

www.wxqa.com/sss/balon1.cgi
AEØSS-13 / EOSS-273

¹ <http://aprs.fi/kc0d-15> (that is a zero)
<http://aprs.fi/ae0ss-13> (that is a zero)