

# Payload Plan

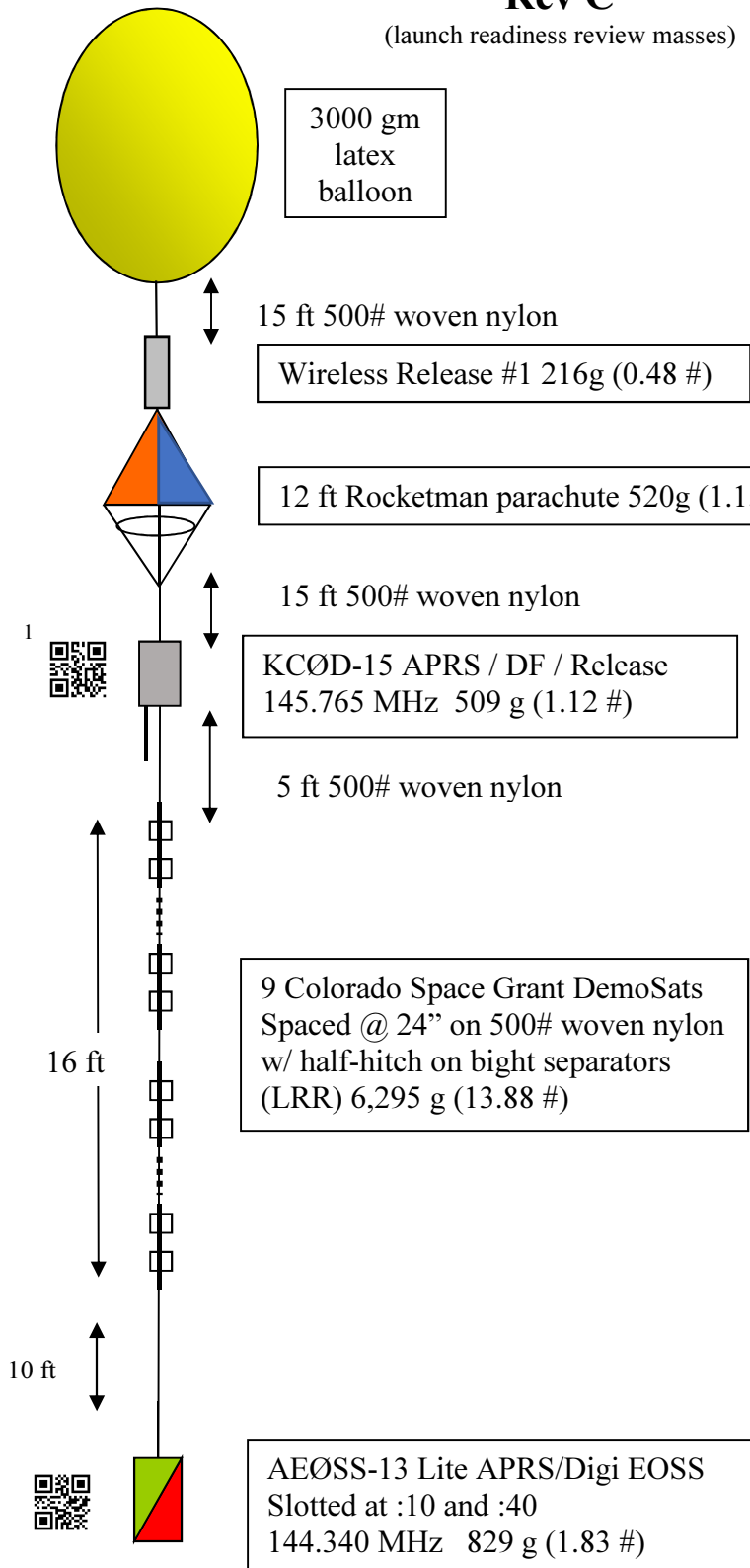
# EOSS-277 Heavy

0645 MDT, 28 July 2018

## Rev C

Deer Trail, CO

(launch readiness review masses)



3000 gm  
latex  
balloon

15 ft 500# woven nylon  
Wireless Release #1 216g (0.48 #)

12 ft Rocketman parachute 520g (1.15 #)

15 ft 500# woven nylon  
KCØD-15 APRS / DF / Release  
145.765 MHz 509 g (1.12 #)

5 ft 500# woven nylon  
9 Colorado Space Grant DemoSats  
Spaced @ 24" on 500# woven nylon  
w/ half-hitch on bight separators  
(LRR) 6,295 g (13.88 #)

10 ft  
AEØSS-13 Lite APRS/Digi EOSS  
Slotted at :10 and :40  
144.340 MHz 829 g (1.83 #)

Item	Weight pounds	Weight kg
Student Payloads	13.88	6.295
EOSS Payloads	3.43	1.554
Parachute	1.15	0.520
Neck load	18.45	8.369
Balloon	6.61	3.000
Gross Weight	25.06	11.369
Gross Lift Factor	1.15	1.15
Neck Lift	22.21	10.073
H2 fill; scf (approx)	389	
Burst Altitude; kft km	106.9	32.6

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-15 / EOSS-277

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
AEØSS-13 / EOSS-277

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