

Payload Plan

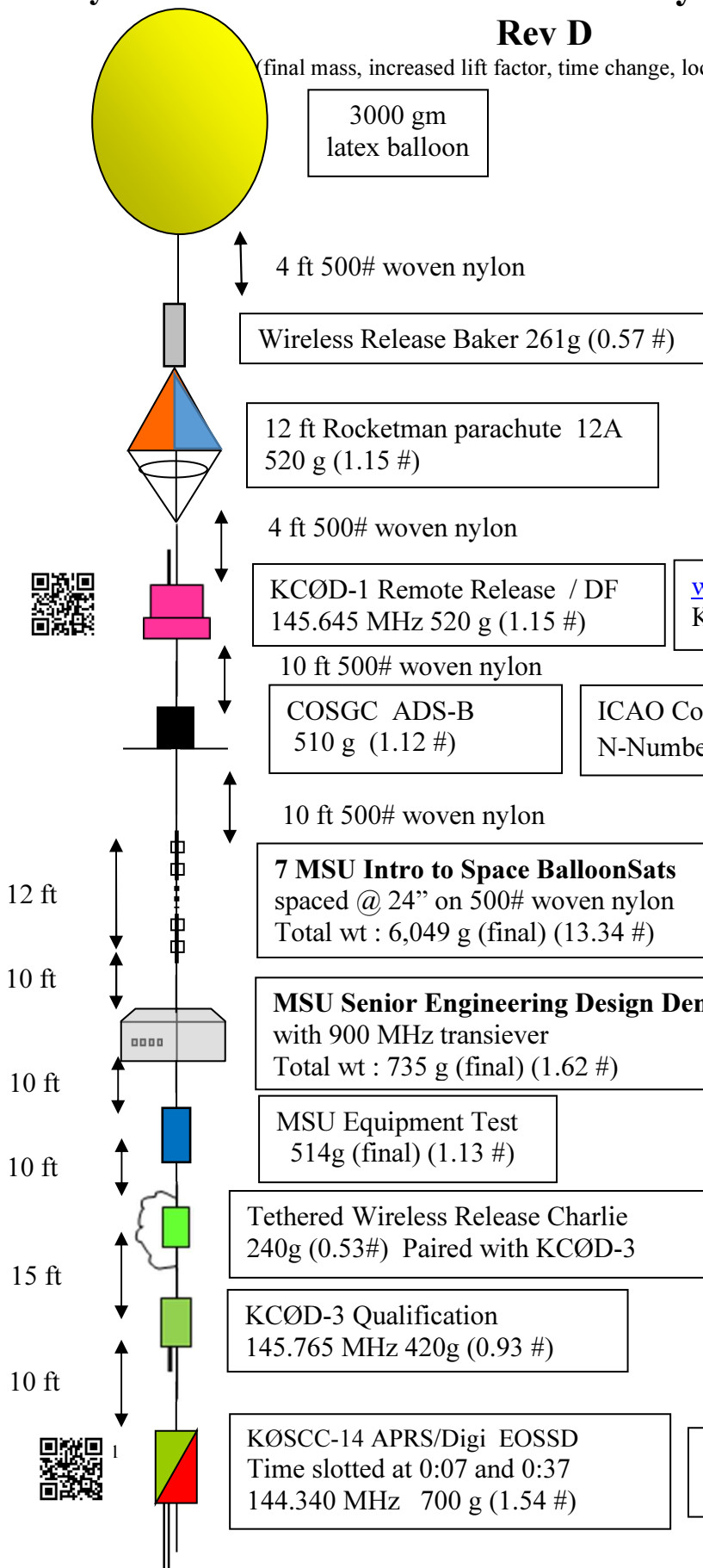
EOSS-303 Heavy

0700 MST, 01 Nov 2020

Rev D

Wiggins, CO

(final mass, increased lift factor, time change, location change)



3000 gm latex balloon

4 ft 500# woven nylon

Wireless Release Baker 261g (0.57 #)

12 ft Rocketman parachute 12A 520 g (1.15 #)

4 ft 500# woven nylon

KCØD-1 Remote Release / DF 145.645 MHz 520 g (1.15 #)

www.wxqa.com/sss/balon1.cgi
KCØD-1 / EOSS-303

10 ft 500# woven nylon
COSGC ADS-B 510 g (1.12 #)

ICAO Code: A59EE9
N-Number: N461SG

10 ft 500# woven nylon
7 MSU Intro to Space BalloonSats spaced @ 24" on 500# woven nylon
Total wt : 6,049 g (final) (13.34 #)

12 ft
10 ft

MSU Senior Engineering Design DemoSat with 900 MHz transiever
Total wt : 735 g (final) (1.62 #)

10 ft
10 ft

MSU Equipment Test 514g (final) (1.13 #)

15 ft

Tethered Wireless Release Charlie 240g (0.53#) Paired with KCØD-3

KCØD-3 Qualification 145.765 MHz 420g (0.93 #)

10 ft

KØSCC-14 APRS/Digi EOSSD Time slotted at 0:07 and 0:37 144.340 MHz 700 g (1.54 #)

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KØSCC-14 / EOSS-303

Item	Weight pounds	Weight kg
MSU Experiments	16.09	7.298
EOSS Payloads	5.27	2.390
Parachute	1.72	0.781
Neck load	23.08	10.469
Balloon	6.61	3.000
Gross Weight	29.69	13.469
Gross Lift Factor	1.19	1.19
Neck Lift	28.72	13.026
H2 fill; scf (approx)	477	
Burst Altitude; kft km	102.5	31.3

¹ Tracking at <https://track.eoss.org>