G: Ground Study	**Early Start**	**6) Technology**
F: Flight Study	**Task To Be Determined After Decision Point**	**7) Countermeasure**
L: Lunar	**Major Milestone/Event/Accomplishment**	**8) Information To/From other Elements**
NSBRI	**1) Risk Characterization**	**9) Information to HSRB**
DA&M: Data Analysis & Modeling	**2) Task↓↑Task**	**10) Requirements**
FP: Flight Prep	**3) Standards - New**	**11) Study**
AO: Add on to another study	**4) Standards - Update**	**Major Decision Point**
Planned/unfunded	**5) Tools**	**Stop**

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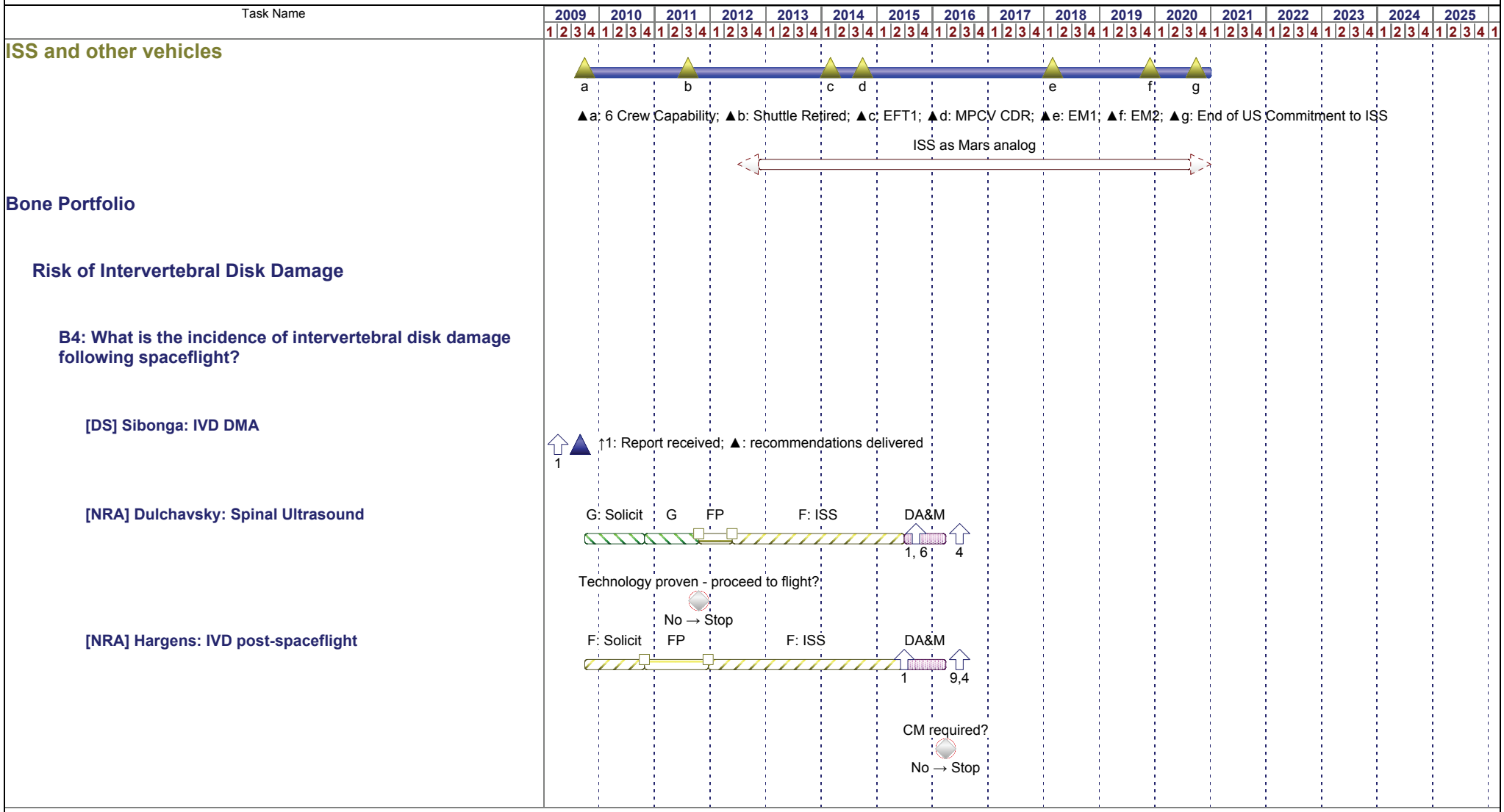
Task Name
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
ISS and other vehicles
a b c d e f g
▲a: 6 Crew Capability; ▲b: Shuttle Retired; ▲c: EFT1; ▲d: MPCV CDR; ▲e: EM1; ▲f: EM2; ▲g: End of US Commitment to ISS
ISS as Mars analog
Bone Portfolio
Risk of Intervertebral Disk Damage
B4: What is the incidence of intervertebral disk damage following spaceflight?
[DS] Sibonga: IVD DMA
↑1: Report received; ▲: recommendations delivered
1
[NRA] Dulchavsky: Spinal Ultrasound
G: Solicit
G
FP
F: ISS
DA&M
1, 6
4
Technology proven - proceed to flight?
No → Stop
[NRA] Hargens: IVD post-spaceflight
F: Solicit
FP
F: ISS
DA&M
1
9,4
CM required?
No → Stop