Table 2: Sketch of DOE/NNSA pit production strategies at LANL, 1987-present			
Plan; usual name if any	**Main plutonium infrastructure to be used**	**Duration of Plan**	**Primary reasons plan was abandoned**
A	PF-4, SNML, CMR, NMSF	1987-1990	SNML project with implicit pit role abandoned due to popular opposition, unrealistic design and costs, and no real need at the time, investment in CMR thought to be more cost-effective.
B	PF-4, CMR, NMSF	1990-1995	The larger CMR mission envisioned, with associated upgrades ("Phase III"), was dropped; remainder of upgrades combined into CMRU.
C	PF-4 with CMIP, CMRU, NMSF	1995-2002	In 1997, seismic demand was found to be much higher than previously known. A fault was discovered beneath CMR. CMRU was eventually found to be infeasible due to fragility, age, and seismic risk, and was superseded by CMRR. The poorly designed and built NMSF was found to be unusable and unfixable (finally torn down, 2007). A much smaller but still large vault was included in CMRR-NF planning, which began in 2002. In parallel, MPF planning for higher pit production levels at SRS began in 2002.
D	PF-4, CMRR-NF, RLUOB	2002-2012	Litigation, delay; CMRR-NF found to be infeasible due to fatal geotechnical issues, scale too great for site, widespread LANL impacts, and runaway costs. MPF meanwhile abandoned (2008). Major setback.
E, PMA	PF-4, RLUOB/PF-400, modules	2013-2017	"Modules" found to be infeasible: too disruptive, too expensive, too small, too little space available.
F, two-site plan	PF-4, PF-400, with SRPPF at SRS	2018-present	NNSA now says LANL construction necessary for reliable production will be delayed 6-8 years from 2018 estimate. Potentially fatal problems include high cost vs. low benefit, PF-4 age and condition, risks to other programs, SRPPF maturation.

Acronyms:

CMIP = Capability Maintenance and Improvement Program, TA-55
CMR = Chemistry and Metallurgy Research Building, TA-3. Completed circa 1953, still partially in use.
CMRR = Chemistry and Metallurgy Research Replacement Project, TA-55, consisting of two buildings: the Nuclear Facility (CMRR-NF); and the Radiological Laboratory, Utility, and Office Building (RLUOB), now a Hazard Category III Nuclear Facility called PF-400.
CMRU = CMR Upgrades Project, TA-3. Terminated when CMRR began in circa 2003. MPF = Modern Pit Facility
NMSF = Nuclear Materials Storage Facility, TA-55. Completed in 1987, never used, torn down 2007. PF-4 = LANL's main plutonium facility, TA-55. Placed in service in 1978. Operating today.
PMA = Plutonium Modular Approach
SNML = Special Nuclear Materials Laboratory, TA-55. Planning began in 1987 and was terminated prior to construction in 1990.
SRPPF = Savannah River Plutonium Processing Facility (SRPPF)
SRS = Savannah River Site
TA-3 = Main technical area, LANL
TA-55 = Main plutonium Technical Area 55, LANL