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COOPER DEVELOPMENT CORPORATION

2828 SOUTH PECK ROAD, MONROVIA, CALIFORNIA - HILLCREST 6-3138

Handwritten notes:
Fleming
Patent
C.P. Webb
2022-03-06
Patent
Patent
Patent

21 January 1949

University of California
Radiation Laboratory
P.O. Box 908
Livermore, California

BEST COPY AVAILABLE

Attention: Mr. C. L. Blue, Assistant Business Manager

Subject: Subcontract #128

Dear Mr. Blue:

In our letter of September 23, 1948, we are advised that you have received the drawings referred to in the above mentioned letter. The performance of the work under this subcontract is dependent upon the receipt of these drawings.

<u>Dwg. No.</u>	<u>Title</u>
281110	nc Assembly Launcher
281101	nc Assembly Mount
281102	A Assembly Base
281103	nc Assembly Rail
281104	nc Leg Assembly
281105	nc Bracing "Beecto" Hydraulic Cylinder
281106	nc Assembly Plate Mount
281107	nc Assembly Frame - Mount
281108	nc Frame - Mount
281109	nc Gusset - Mount
281110	nc Gusset - Mount Launcher
281111	nc Gusset Mount Launcher
281112	nc Bracket - Roller
281113	nc Assembly - Roller Plate Roller
281114	nc Assembly - Roller
281115	nc Azimuth Scale
281116	nc Assembly Vernier - Azimuth
281117	nc Stanchion Launcher
281119	nc Rod Extension
281121	nc Adapter - End, Control, Azimuth
281122	nc Shaft - Coupling, Control, Azimuth
281123	nc Bearing Control, Azimuth
281124	nc Motor Mount - Azimuth Control
281126	nc Gusset - Leg Trunnion Launcher
281127	nc Gusset - Cylinder Trunnion Launcher
281129	nc Vernier Scale - Azimuth Launcher
281130	nc Clamp H.R. - Vernier Launcher
281131	nc Clamp H.R. - Vernier Launcher
281133	nc Assembly Beam, Rail
281134	nc Bracket Switch Launcher
281135	nc Bracket Vernier Launcher
281135	nc Shaft - Leg Launcher
281136	nc Shaft - Rail Launcher
281137	nc Trunnion Block
281138	nc Shaft - Cylinder Launcher
281139	nc Clamping Bracket Launcher
281140	nc Strap Launcher
281142	nc Assembly & Details Wiper Launcher
281143	nc Hangar Launcher
281144	nc Tie-Down - Meter Control Box
281145	nc Tie-Down - Battery Box
281146	nc Template - Launcher Control Box
281147	nc Slings - Cardle
281148	nc Spacer - Micro Switch
281149	nc Rectifier Bracket - Master Control Box
281150	nc Time Delay Relay Bracket " "

<u>Dwg. No.</u>	<u>Title</u>
281151 nc	Relay Bracket - Master Control Box
281152 nc	Inner Chassis - " " "
281153 nc	Battery Charger Panel " " "
281154 nc	Plug Panel - Master Control Box
281155 nc	Programmer Panel " " "
281156 nc	Time Delay Relay Bracket Launcher Control Box
281157 nc	Relay Bracket
281158 nc	Yagi Antenna Assembly
281159 nc	Tube Yagi Antenna
281160 nc	Base Yagi Antenna
281161 nc	Base " "
281162 nc	Insulator "
281163 nc	Rod " "
281164 nc	Rod " "
281165 nc	Spacer -" "
281166 nc	Elements" "
281167 nc	Rod Assembly - "
281168 nc	Fwd. Nose - Seal Modified
281169 nc	Skin - fwd. Modified
281170 nc	Ball Hanger - fwd. Nose Seal
281171 nc	" " " " off-set base
281172 nc	Body Assembly - Shear Pin, fwd. seal, ball - Modified
281173 nc	" " " " " "
281174 nc	Ball - Sealing fwd. nose - Modified
281175 B	Diffuser - Nose Modified
281176 nc	Rod - Push - Forward Seal - Modified
281177 nc	Clamp - Wiring - Tube Modified
281178 nc	Antenna Assembly Dipole
281179 nc	Bracket - Antenna Assembly
281181 nc	Antenna Assembly
281182 nc	Pearule, Antenna Assembly
281183 nc	Insulator Bushing, Antenna Assembly
281184 nc	Insulator Disc, Antenna Assembly
281185 nc	Insulator Washer, Antenna Assembly
281186 nc	Strap, Antenna Assembly
281187 nc	Box Assembly Transmitter

DRAWINGS CALIBRATED UNDER NORMAL JUP-CALIBRATION FILE

Draw. No.	FILE
200100	✓
200101	✓
200102	✓
200103	✓
200104	✓
200105	✓
200106	✓
200107	✓
200108	✓
200109	✓
200110	✓
200111	✓
200112	✓
200113	✓
200114	✓
200115	✓
200116	✓
200117	✓
200118	✓
200119	✓
200120	✓
200121	✓
200122	✓
200123	✓
200124	✓
200125	✓
200126	✓
200127	✓
200128	✓
200129	✓
200130	✓
200131	✓
200132	✓
200133	✓
200134	✓
200135	✓
200136	✓
200137	✓
200138	✓
200139	✓
200140	✓
200141	✓
200142	✓
200143	✓
200144	✓
200145	✓
200146	✓
200147	✓
200148	✓
200149	✓
200150	✓
200151	✓
200152	✓
200153	✓
200154	✓
200155	✓
200156	✓
200157	✓
200158	✓
200159	✓
200160	✓
200161	✓
200162	✓
200163	✓
200164	✓
200165	✓
200166	✓
200167	✓
200168	✓
200169	✓
200170	✓
200171	✓
200172	✓

<u>Dwg. No.</u>	<u>R</u>	<u>F</u>	<u>Title</u>
200173	A	✓	✓Housing - Flap Release
200174	nc	✓	✓Ogive
200175	nc	✓	✓Frame Assembly Mount Launcher
200176	nc	✓	✓Collar - Mount Assembly Launcher
200177	nc	✓	✓Plot Plan of Launching Area
200178	nc	✓	✓Launching Pad
200179	nc	✓	✓Azimuth Scale - Mount Launcher
200180	nc	✓	✓Aft Retainer Assembly - Rail Assembly Launcher
200181	nc	✓	✓Plate Mounting - Aft Retainer
200182	nc	✓	✓Pivot Pin - Aft Retainer
200183	nc	✓	✓Arm - Aft Retainer Launcher
200184	nc	✓	✓Cross Bar - Aft Retainer
200185	nc	✓	✓Roller Bracket Assembly, Base Plate
200187	nc	✓	✓Roller Block - Base Plate
200188	nc	✓	✓Strap, Roller Bracket Assembly Launcher
200189	nc	✓	✓Shaft Roller - Launcher
200190	nc	✓	✓Retainer, Roller Launcher
200191	nc	✓	✓Roller, Launcher
200192	nc	✓	✓Roller, Launcher
200193	nc	✓	✓Support, Azimuth Scale Launcher
200194	nc	✓	✓Shafting Assembly Launcher
200195	nc	✓	✓Roller, Azimuth
200196	nc	✓	✓Roller, Azimuth - Rail Launcher
200197	nc	✓	✓Shaft, Azimuth, Rail Launcher
200198	nc	✓	✓Roller, Azimuth Launcher
200199	nc	✓	✓Roller, Azimuth Launcher
200200	nc	✓	✓Roller, Azimuth Launcher
200201	nc	✓	✓Roller, Azimuth Launcher
200202	nc	✓	✓Roller, Azimuth Launcher
200203	nc	✓	✓Roller, Azimuth Launcher
200204	nc	✓	✓Roller, Azimuth Launcher
200205	nc	✓	✓Roller, Azimuth Launcher
200206	nc	✓	✓Roller, Azimuth Launcher
200207	nc	✓	✓Roller, Azimuth Launcher
200208	nc	✓	✓Roller, Azimuth Launcher
200209	nc	✓	✓Roller, Azimuth Launcher
200210	nc	✓	✓Roller, Azimuth Launcher
200211	A	✓	✓Nose Type I
200212	A	✓	✓Base Assembly - Rocket Motor
200213	nc	✓	✓Vernier - Azimuth
200214	nc	✓	✓Support, Vernier
200215	A	✓	✓Body - Forward - Breakaway Type I Diffuser
200216	nc	✓	✓Nose Cone
200217	nc	✓	✓Azimuth Drive Assembly
200218	nc	✓	✓Shaft - Azimuth Drive Assembly
200219	nc	✓	✓Crank Assembly - Azimuth Drive Assembly
200220	nc	✓	✓Arm Crank Assembly
200221	nc	✓	✓Handle Crank Assembly
200222	nc	✓	✓Parachute Installation
* 200182	nc	✓	✓Locking Pin Assembly - Aft Retainer

<u>Inst. No.</u>	<u>R</u>	<u>F</u>	<u>Title</u>
200224	nc	✓	✓ Block - Timer Switch
200225	nc	✓	✓ Block - Indicator - Timer Switch
200227	A	✓	✓ Structure Assembly, Receiver
200228	B	✓	✓ Diffuser Base Assembly
200230	A	✓	✓ Plate - Bottom - Timer
200231	A	✓	✓ Plate - Top - Timer
200232	nc	✓	✓ Spacer - Timer
200233	nc	✓	✓ Support - Timer
200234	nc	✓	✓ Clip - Timer
200235	nc	✓	✓ Bracket - Timer
200236	nc	✓	✓ Pad - Timer
200237	nc	✓	✓ Insulator - Timer
200238	nc	✓	✓ Terminal-Board - Timer
200241	nc	✓	✓ Plate - Tension - Breakaway For Type I Diffuser
200242	nc	✓	✓ Strap Assembly Launcher
200243	A	✓	✓ Flap Assembly - Aft
200244	nc	✓	✓ Block - Battery Support - Timer
200245	nc	✓	✓ Spring - Flap
200249	A	✓	✓ Cover - Associate Component
200250	nc	✓	✓ Drawing Hydraulic Cylinder, Double Action
200251	B	✓	✓ Stud - Flap Holder
200252	A	✓	✓ Carbide Assembly Transmitter
200253	A	✓	✓ Plate - Spacer
200254	nc	✓	✓ Flap Assembly Front
200255	A	✓	✓ Bulkhead - Porcelain Support
200257	nc	✓	✓ Diffuser - Hose Type III
200258	nc	✓	✓ Plate - Protector
200259	nc	✓	✓ Guard - Telemeter Component
200261	nc	✓	✓ Plate - Bottom Telemeter Component
200262	nc	✓	✓ Filter Assembly
200263	nc	✓	✓ Assembly Slide Forward
200264	nc	✓	✓ Slide Forward
200265	nc	✓	✓ Hook - Slide - Forward
200266	nc	✓	✓ Assembly Slide Aft
200267	nc	✓	✓ Slide Aft
200268	nc	✓	✓ Insert - Slide Aft
200269	A	✓	✓ Body - Forward - Breakaway For Type III Diffuser
200270	A	✓	✓ Spacer - Insulation Head Assembly
200271	A	✓	✓ Nose Cone for Type III Diffuser
200272	nc	✓	✓ Drop Test Assembly - Mock-up
200273	nc	✓	✓ Plate - Tension - Breakaway For Type III Diffuser
200274	nc	✓	✓ Bracket - Ledex - Tele. Comp.
200275	nc	✓	✓ Support Telemeter Component
200277	nc	✓	✓ Plate - Top - Telemeter Component
200278	nc	✓	✓ Clamp - Cable For Breakaway Body
200279	nc	✓	✓ Pin - Pull
200280	nc	✓	✓ Stiffener - Telemeter Component
200281	nc	✓	✓ Pad - Telemeter Component

<u>Dwg. No.</u>	<u>R.</u>	<u>P.</u>	<u>Title</u>
200283	nc	✓	✓ Charis Assembly - Telemeter Component
200284	nc	✓	✓ Spacer - Telemeter Component
200285	nc	✓	✓ Support Azimuth Scale Launcher
200286	nc	✓	✓ Diffuser Asssembly Type I
200287	nc	✓	✓ Pin Assembly
200288	nc	✓	✓ Adapter - Pin Flare
200289	nc	✓	✓ Final Assembly Type II
200290	nc	✓	✓ Final Assembly Telemeter Type II
200291	nc	✓	✓ Final Assembly Type I
200292	nc	✓	✓ Final Assembly Telemeter Type I
200293	nc	✓	✓ Fitting Telemeter Component
200294	nc	✓	✓ Manifold - Telemeter Component
200295	nc	✓	✓ Bracket - Battery - Timer
200296	nc	✓	✓ Block - Battery Support - Timer
200297	nc	✓	✓ Modification of Structure Assembly: Equipment Access. Door
200298	nc	✓	✓ Block - Battery-Timer
200300	A	✓	✓ Insulator - Parachute Compartment
200301	nc	✓	✓ Bar-Chute Pull Out
200302	nc	✓	✓ Pin - Swivel
200303	nc	✓	✓ Mounting Socket - External Power Supply
200304	A	✓	✓ Tee-Bolt Assembly Launcher
200306	A	✓	✓ Plate, Launcher
200307	nc	✓	✓ Spacer - Forward Flap
200308	nc	✓	✓ Spacer - Aft Flap
200309	nc	✓	✓ Parachute Assembly
200310	nc	✓	✓ Diffuser Base Assembly for Tele. rd. only
200311	nc	✓	✓ Diffuser Assembly Type II
200312	nc	✓	✓ Diffuser - Nose Type II for telelaunching rd. only
200314	nc	✓	✓ Diffuser Assembly Type II for telelaunching rd. only
200315	nc	✓	✓ Adjustment Screw
200317	nc	✓	✓ Adapter - Cruciform wind tunnel test
200318	nc	✓	✓ Diffuser Base Assembly Windtunnel test
200319	nc	✓	✓ Mounting Pin - Adapter
200320	nc	✓	✓ Body - Shroud Cutter
200321	B	✓	✓ Head - Shroud Cutter
200322	nc	✓	✓ End - Shroud Cutter
200323	nc	✓	✓ Holder - Igniter
200324	nc	✓	✓ Plug - Shroud Cutter
200326	nc	✓	✓ Bar - Nose Release
200327	nc	✓	✓ Shroud Cutter Assembly
200328	nc	✓	✓ Spacer - Bulkhead
200329	nc	✓	✓ Shield - Cutter Flash
200330	nc	✓	✓ Strap - Hold Down
200331	nc	✓	✓ Cover Plate - Breakaway Body
200332	nc	✓	✓ Strap Hook - Breakaway Body
* 200299	nc	✓	✓ Screw - Disconnect Body
* 200304	nc	✓	✓ Breakaway, External Power Supply Connection

DRAWINGS GENERATED UNDER UGOL SPP. CONTRACT 1100

Part No.	QTY	DESCR
280101 A	✓	✓ Shaft Body - Forward Launcher
280102 A	✓	✓ Cap - Forward Section
280103 B	✓	✓ Diffuser - Nose
280104 ne	✓	✓ Cone - Diffuser (Obsolete)
280105 ne	✓	✓ Locking Tube Segment - Forward
280107 ne	✓	✓ Plug - Shroud Cutter
280108 A	✓	✓ Assembly - Shroud Cutter
280109 ne	✓	✓ Tube Lin Assembly Body Forward
280110 ne	✓	✓ Cylinder
280111 A	✓	✓ Body - Forward Breakaway
280112 A	✓	✓ Strap - Hold Down
280113 A	✓	✓ Grooved Strap - Hold Down
280114 ne	✓	✓ Spring - Body Fwd. Breakaway
280115 ne	✓	✓ Hold Down Strap Hook - Body Breakaway
280116 ne	✓	✓ Strap Hook - Body Breakaway
280117 ne	✓	✓ Cover Plate - Body Fwd. Breakaway
280118 ne	✓	✓ Splinner (Obsolete)
280120 ne	✓	✓ Rod - Aft Seal
280121 ne	✓	✓ Piston - Aft Seal
280122 B	✓	✓ Housing - O ₂ Bottle
280123 ne	✓	✓ Spring Bar - Body Breakaway
280124 ne	✓	✓ Washer - Aft Seal
280125 A	✓	✓ Pin - Aft Seal
280126 B	✓	✓ Cone
280127 ne	✓	✓ Assembly Launcher (Modified)
280128 ne	✓	✓ Assembly - Rail Launcher
280129	✓	✓ Assembly Beam, Rail Launcher
280130 ne	✓	✓ Assembly & Details, Guide Launcher
280131 ne	✓	✓ Rail Forward Section Launcher
280132 ne	✓	✓ Rail - Aft Section Launcher
280133 ne	✓	✓ Modification Assembly, Launcher, Hook
280134 ne	✓	✓ Extension for Frame Launcher
280135 ne	✓	✓ Shaft - Rail Launcher
280136 ne	✓	✓ Shaft - Log Launcher
280137 ne	✓	✓ Rod Extension Launcher
280141 ne	✓	✓ Log Assembly
280142 ne	✓	✓ Trunnion Block Launcher
280143 ne	✓	✓ Trunnion Block Launcher
280144 ne	✓	✓ Stave, Launcher
280145 ne	✓	✓ Brace, Launcher
280146 ne	✓	✓ Brace, Launcher
280147 ne	✓	✓ Brace, Launcher
280148 A	✓	✓ Assembly Slide Forward
280149 A	✓	✓ Body Slide Forward
280150 A	✓	✓ Guide Launcher
280151 ne	✓	✓ Assembly Slide Aft
280152 A	✓	✓ Body Slide Aft
280153 ne	✓	✓ Bushing Slide Aft Launcher

<u>Des. No.</u>	<u>R.</u>	<u>T.</u>	<u>Title</u>
280158	nc	✓	✓Block - Spacer, Vernier
280159	nc	✓	✓Vernier - Elevation
280160	A	✓	✓Protractor - Elev. Assembly
280161	nc	✓	✓Mounting Plate, Tank Launcher
280162	nc	✓	✓Ring - Stop, Protractor
280163	nc	✓	✓Stop - Protractor
280164	nc	✓	✓Retainer - Aft, Assembly of
280165	nc	✓	✓Protractor Stop Assembly
280166	nc	✓	✓Snubber Block
280167	nc	✓	✓Snubber Bracket
280168	nc	✓	✓Slide Forward (ASP with 4 Boosters)
280169	nc	✓	✓Body Slide Aft
280171	A	✓	✓Pin Assembly 202.5 sq. in., First Stage
280172	A	✓	✓Parachute Assembly
280173	B	✓	✓Shroud Assembly
280174	A	✓	✓Weld Assembly - Valve, Forward Seal System Diffuser (Obsolete)
280175	A	✓	✓Lock Pin - Valve, Forward, Seal System Diffuser (Obsolete)
280176	nc	✓	✓Piston - Valve, Forward, Seal System Diffuser (Obsolete)
280177	nc	✓	✓Insert - Valve, Forward, Seal System Diffuser (Obsolete)
280179	nc	✓	✓Plug - Valve, Forward Seal System, Diffusers (Obsolete)
280181	A	✓	✓Assembly - Parachute Container - Recovery Equipment
280182	nc	✓	✓Insulator - Antenna - Base
280183	nc	✓	✓Insulator - Antenna Outer Ring
280184	B	✓	✓Programmer Compartment Recovery Equipment
280185	nc	✓	✓Hose Cone - End Section
280186	nc	✓	✓Hose Cone - Center
280187	nc	✓	✓Liner - Parachute
280188	nc	✓	✓Assembly - "B" Battery Case
280189	B	✓	✓Block - "B" Battery Terminal
280190	A	✓	✓Cover - " "
280191	nc	✓	✓Insulator - "B" Battery
280192	A	✓	✓Cover - "A" Battery
280193	nc	✓	✓Insulator - "A" Battery
280194	nc	✓	✓Block - "A" Battery Terminal
280195	A	✓	✓Assembly "A" Battery Term. Block
280196	nc	✓	✓Sp. cer - " " "
280197	nc	✓	✓Assembly - "A" Battery Case
280198	nc	✓	✓Assembly - Programmer, Elec. Chassis
280199	nc	✓	✓Switch - Grayhill
280201	A	✓	✓Battery Box Assembly - Rec. X tr.
280202	nc	✓	✓Weld Assembly Stow. Box. fwd. seal system, Diffuser (Obsolete)
280203	nc	✓	✓Door Assembly- " " " " " "
280204	nc	✓	✓Lock Housing " " " " " "
280205	nc	✓	✓Lock Pin " " " " " "
280208	B	✓	✓Seal - Aft Programmer Component
280210	C	✓	✓Forward Ring Assembly Filter
280211	B	✓	✓Aft Ring Assembly Filter
280212	A	✓	✓Filter Assembly
280213	C	✓	✓Sub-Assembly Programmer Plug-in Bracket
280214	B	✓	✓Insulator - Fuse Clip

<u>Dwg. No.</u>	<u>Title</u>
280215 A	✓ Bracket - Programmer Plug-in Bracket
280216 A	✓ Spring Housing
280217 B	✓ Plunger Assembly - Parachute Float
280218 A	✓ CO ₂ Bottle Retainer
280219 A	✓ Cap
280220 nc	✓ Pin, Release - Parachute Floatation Mechanism
280221 nc	✓ Parachute Float Inflating Mechanism
280222 A	✓ Chassis - Programmer Elect.
280226 A	✓ Housing - Pressure Squib - Aft Seal
280227 nc	✓ Bushing - Aft Seal
280228 A	✓ Cover Assembly - Battery Box
280229 nc	✓ Piston Assembly - Piercing - CO ₂ Bottle
280230 nc	✓ Plate - CO ₂ Bottle
280231 nc	✓ Washer - CO ₂ Bottle
280232 nc	✓ Tube - Programmer
280233 nc	✓ Programmer - Recovery Motor Assembly
280234 A	✓ Base - Acceleration Switch
280235 D	✓ WASP Booster Hd. Motor
280237 nc	✓ Adapter Ring
280238 A	✓ WASP Booster to ASP Motor - Aft Attach
280239 nc	✓ Housing - Acceleration Switch
280240 nc	✓ Acceleration Switch Assembly
280241 nc	✓ Design Study Proposal Floatation Seal (Obsolete)
280242 nc	✓ Forward Weldment ASP Motor
280243 nc	✓ Aft Head Weldment ASP Motor
280244 A	✓ Actuator - Acceleration Switch
280246 nc	✓ Bullhead - Parachute Support
280247 B	✓ Assembly - Fuse Holder
280248 nc	✓ Housing & Rod Assembly - Aft Seal
280249 nc	✓ Compression Spring - Forward Retainer
280250 nc	✓ Pin - Lower, Forward Retainer
280251 nc	✓ Pad Forward Retainer
280252 nc	✓ Bolt - Special, Forward Retainer
280253 A	✓ Stud - Explosive, Forward Retainer
280254 nc	✓ Plunger - Spring, Forward Retainer
280255 nc	✓ Jaw-Left Hand Forward Retainer
280256 nc	✓ Jaw-Right Hand Forward Retainer
280257 A	✓ Bracket - Base; Forward Retainer Assembly of
280258 nc	✓ Arm - Forward Ret. Assembly of
280259 nc	✓ Pin - Upper, Forward Retainer
280260 nc	✓ Retainer Forward, Assembly of
280261 C	✓ Plate - Programmer
280262 A	✓ Spacer - Programmer
280263 nc	✓ Parachute Installation
280264 nc	✓ Pump Connection - CO ₂ Bottle
280265 A	✓ Hsg. and Piston Assembly - CO ₂ Bottle
280266 A	✓ Pin Assembly
280267 nc	✓ Frame Assembly - Fin - ASP
280268 nc	✓ Span - Fin
280269 nc	✓ Closure Assembly - Fin Assembly

<u>Dwg. No.</u>	<u>P</u>	<u>E</u>	<u>Title</u>
280270	nc	✓	✓ Rod - Threaded
280271	nc	✓	✓ Switch - Lever Action
280272	A	✓	✓ Assembly - 5 Switches
280273	nc	✓	✓ Cover - 5 Timer Switch Motors
280274	nc	✓	✓ Shield - 5 Timer Switch Motors
280275	A	✓	✓ Block - 5 Timer Switch Motors
280276	A	✓	✓ Block - "B" Battery
280277	B	✓	✓ Contracts - Programmer Battery Packets
280278	nc	✓	✓ Hood - Microdot
280279	A	✓	✓ Cover - Recovery Xntr.
280280	nc	✓	✓ Chassis Recovery Xntr.
280281	nc	✓	✓ Recovery Xntr. Assembly
280282	nc	✓	✓ Case - Stowage, Forward Seal (Obsolete)
280283	nc	✓	✓ Hinge - Stowage Door, Case, fwd Seal System (Obsolete)
280284	nc	✓	✓ Plug - Stowage Case, fwd Seal System, Diffuser (Obsolete)
280285	nc	✓	✓ Tank Assembly - Valve, Forward Seal System, Diffuser (Obsolete)
280286	nc	✓	✓ Bushing - Flanged, Control, Azimuth
280287	nc	✓	✓ Seal - Forward Seal System Diffuser (Obsolete)
280288	nc	✓	✓ Seal & Tubing Assembly - fwd. Seal System, Diffuser (Obsolete)
280289	nc	✓	✓ Spacer - Seal Assembly - " " " "
280290	nc	✓	✓ Spacer, Snubber Launcher
280291	nc	✓	✓ Spacer Programmer
280292	A	✓	✓ Fwd. ring - WASP fwd. attach. Mtg.
280293	A	✓	✓ Aft " " " " "
280294	nc	✓	✓ Actuator - Stop Azimuth Control
280295	nc	✓	✓ Outline dwg. UCRL Dry Test Vehicle
280296	nc	✓	✓ Bracket - Micro Switch, Azimuth Control
280297	nc	✓	✓ Assembly Slide Aft (ASP with 4 Boosters)
280298	nc	✓	✓ Floatation Tube
280299	nc	✓	✓ Explosive Bolt Retainer
280300	B	✓	✓ Seal - Sealing, Forward Nose
280301	D	✓	✓ Forward Nose - Seal
280302	B	✓	✓ Block - Motor Receptacle
280303	A	✓	✓ Block Assembly, Bearing Forward Nose Seal
280304	nc	✓	✓ Explosive Bolt Attach WASP to ASP fwd.
280305	A	✓	✓ Plug - Explosive Bolt
280306	nc	✓	✓ Shear Pin, " "
280307	C	✓	✓ Diffuser Nose
280308	A	✓	✓ Rod - Push Forward Seal
280309	nc	✓	✓ Body - Shear Pin Forward Seal
280310	A	✓	✓ Rod " " " "
280311	nc	✓	✓ Programmer Block Diag. Cleansweep ASP
280312	nc	✓	✓ First-Stage Motor Firing Circuit - for Mugu Range
280313	nc	✓	✓ Typical Time Delay Circuit Cleansweep ASP - Simplified Schematic
280314	nc	✓	✓ Squib Retainer
280315	nc	✓	✓ Plug - Squib Retainer
280316	nc	✓	✓ Casting - Case - Stowage fwd. seal (Obsolete)
280317	nc	✓	✓ Tube Assembly Parachute Flotation

<u>Des. No.</u>	<u>R</u>	<u>P</u>	<u>Title</u>
280318	nc	✓	✓ Assembly Launcher Hyd. System
280319	nc	✓	✓ T - Manifold
280320	nc	✓	✓ Bracket - Plug Support
280321	nc	✓	✓ Block No. 1 - Antenna
280322	nc	✓	✓ Block No. 2 - "
280323	nc	✓	✓ Insulator - Antenna
280324	nc	✓	✓ Body Assembly - Shear Pin , Forward Seal, Roll
280325	nc	✓	✓ Plate - Programmer Compartment Assembly
280326	nc	✓	✓ Cone & Programmer Compartment Assembly
280327	nc	✓	✓ Plate Hyd. Run Motor
280328	nc	✓	✓ Explosive Bolt - WASP to ASP End.
280329	nc	✓	✓ Angle - hyd. Plumbing
280330	nc	✓	✓ Explosive Bolt Assembly fwd. attach WASP to ASP
280332	nc	✓	✓ Explosive Bolt Assembly - Aft Breakaway-WASP to ASP
280333	A	✓	✓ Holder - Feed thru Insulator
280334	nc	✓	✓ Bracket - Aft attach. WASP to ASP
280335	nc	✓	✓ Block - Timing Motor
280336	nc	✓	✓ Cam - " "
280337	nc	✓	✓ Assembly & Details Slide fwd Asp 3 Stage Cluster
280338	nc	✓	✓ Assembly & Details of Slide Aft, ASP 3 Stage Cluster
280339	nc	✓	✓ Bracket - Powerstat Type 29
280340	nc	✓	✓ Cutout Detail - Launcher Control Box
280341	nc	✓	✓ Modification - Master Control Box
280342	nc	✓	✓ Modification - Launcher Battery Box
280343	nc	✓	✓ Terminal Board - Recovery Unit.
280344	nc	✓	✓ Stiffener - Fuse Clip
280345	nc	✓	✓ Tee-Bolt Assembly Launcher Control Box
280346	nc	✓	✓ Base Assenly Launcher (Assembly)
280347	B	✓	✓ Tongue - 2nd Stage Slip Joint
280348	A	✓	✓ Collar 1st " " "
280349	nc	✓	✓ Ring - Adapter
280350	nc	✓	✓ Ring - stiffener, 2nd stage
280352	nc	✓	✓ Bracket - Fin Holder 2nd Stage
280354	nc	✓	✓ Screw - Truss Head (Spec)
280355	nc	✓	✓ 2nd Stage Motor Installation
280356	nc	✓	✓ Wiring Tube - Diffuser
280357	nc	✓	✓ Clamp - Wiring-Tube
280358	nc	✓	✓ Boot - Forward Seal
280359	nc	✓	✓ Holder - Flare
280360	nc	✓	✓ Assembly Slide fwd.
280361	nc	✓	✓ Body - Slide, Forward used with ASP - 2nd Stage
280364	nc	✓	✓ Casting Funnel Assembly 2nd Stage
280365	A	✓	✓ Head Assembly
280366	nc	✓	✓ Schematic, Master Programmer, Launcher
280368	nc	✓	✓ Adapter - 2nd Stage Loading
280369	nc	✓	✓ 2nd Stage Motor Mount - Forward Support
280371	nc	✓	✓ Skin - fwd.
280372	nc	✓	✓ Skin - Filler
280373	nc	✓	✓ Skin Assembly - Aft

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Draw. No.	Title
280371 nc	Mixing Tube - Fwd. Row - Seal
280372 nc	Stop - Push Rod, fwd. Seal
280373 nc	Plate - Seal
280374 nc	Mixing Diagram - Rocket Head
280375 nc	Breakaway Body Assembly - fwd.
280380 nc	Tooling Pin
280381 nc	Bracket Wiring Assembly
280382 nc	Assembly Disconnect Ring
280383 nc	Programmer Block Diagram Cleansweep ASP
280384 nc	Typical Time Delay Circuit Cleansweep ASP- Simplified Schematic
280385 nc	ASP Firing Circuit for Ft. Mugu Rds.
280387 nc	Ballast Assembly 40.25 lb. 2nd-Stage
280388 nc	35.5 lb. Ballast, Cactus #1
280390 nc	Flotation - Tube - Assembly
280391 nc	Support Flare - Holder
280392 nc	Spring Lock - fwd. Ball Seal
280393 nc	Schematic Diagram - Launcher hydr. System
280500 A	Project 21.3 Assembly - Complete

Additions Below:

200-133 nc	Keeper - Shaft
200-139 nc	Bulkhead - Release
280351 A	Fin 2nd Stage
280353 nc	Shroud Assembly 2nd Stage
SK2801017 nc	Head Assembly Project 21.3 & 28
SK2801014 nc	Wind Tunnel Test Jobs 280 and 281
SK2801001 nc	Proposal- Rocket Motor- 2nd Stage
SK2801004 nc	Proposed - List of Drawings Layout
SK2801005 nc	Proposal - Seal Assembly, Fwd. Diffuser
SK2801006 nc	Proposed Design for Loki Booster Installation
SK2801007 nc	Sketch, Forward Nose Section
SK2801008 nc	Mandrel - Seal. Fwd. Seal System, Diffuser
SK2801009 nc	Mandrel - Seal Fwd. Seal System, Diffuser
SK2801010 nc	Machining Detail - Stow. Box Seal, Diffuser
SK2801012 nc	Spring - Door, Stow. Box, Seal Diffuser
SK2801015 nc	Proposal - Fwd Seal, Diffuser
SK2801016 nc	Hollow Mandrel-Seal, Fwd. Seal Sys. Diffuser
SK2801020 nc	ASP Firing Circuit for Ft. Mugu Rounds
SK2801021 nc	Jig - Fwd. Casting Pin Booster - LOKI
SK2801024 nc	Drilling Fixture for Locating Fwd. Retainer on Rail Assembly
SK2801025 nc	Drilling Fixture for Locating Fwd. Retainer on Rail Assembly

Part No.	QTY	Description
281101	no	✓ Assembly Launcher
281102	no	✓ Assembly Mount
281103	no	✓ Assembly Base
281104	no	✓ Assembly Ball
281105	no	✓ Log Launcher
281106	no	✓ Loading "Dodge" Hydraulic Cylinder
281107	no	✓ Assembly Plate Mount
281108	no	✓ Assembly Frame - Mount
281109	no	✓ Frame - Mount
281110	no	✓ Mount - Mount
281111	no	✓ Gunset - Mount Launcher
281112	no	✓ Gunset Mount Launcher
281113	no	✓ Bracket - Roller
281114	no	✓ Assembly - Roller Plate Roller
281115	no	✓ Assembly - Roller
281116	no	✓ Assembly Roller
281117	no	✓ Assembly Roller
281118	no	✓ Assembly Roller
281119	no	✓ Assembly Roller
281120	no	✓ Assembly Roller
281121	no	✓ Assembly Roller
281122	no	✓ Assembly Roller
281123	no	✓ Assembly Roller
281124	no	✓ Assembly Roller
281125	no	✓ Assembly Roller
281126	no	✓ Assembly Roller
281127	no	✓ Assembly Roller
281128	no	✓ Assembly Roller
281129	no	✓ Assembly Roller
281130	no	✓ Assembly Roller
281131	no	✓ Assembly Roller
281132	no	✓ Assembly Roller
281133	no	✓ Assembly Roller
281134	no	✓ Assembly Roller
281135	no	✓ Assembly Roller
281136	no	✓ Assembly Roller
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281143	no	✓ Assembly Roller
281144	no	✓ Assembly Roller
281145	no	✓ Assembly Roller
281146	no	✓ Assembly Roller
281147	no	✓ Assembly Roller
281148	no	✓ Assembly Roller
281149	no	✓ Assembly Roller
281150	no	✓ Assembly Roller

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