

No. Pages: 27

TOP SECRET [REDACTED]

COPY NO.: 26

MISSION COVERAGE SUMMARY

MISSION B 4059

10 SEPTEMBER 1957



HTA-MCS-30-57

24 SEPTEMBER 1957

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CENTRAL INTELLIGENCE AGENCY

OFFICE OF RESEARCH AND REPORTS

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TOP SECRET CHESS

CIA/RR-HTA

25X1D

MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57

Date of Report 24 September 1957 Mission No. B 4059

WAC & BE No.	Photo Ident.			Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Cam.	Exp.	Time	Lat. N	Long. E					
235				48	46	USSR	F			Saratov-Astrakhan RR line
235				48	46	USSR	F			Prob bombing range 33 miles NE of KAPUSTIN YAR; approx 100 bomb craters
235				48	46	USSR	P			2 poss electronic tracking sites extending approx 7 1/2 miles NE of u/i installation connected with launching sites (see camera
										25X1D
										25X1D
235				48	46	USSR	P			Double-fenced area with 2 poss missile-launching pads, one pad containing u/i object; 1,500 yards NW of launching area are 5 ware-
										house-type bldgs, 9 small bldgs, 1 prob water tower, and 23 vehicles within double-fenced area; 1 poss tower outside area (see camera
235				48	46	USSR	P			2 prob double-fenced storage areas connected by road
235				48	45	USSR	P			SAM site with herring-bone pattern similar to sites around MOSCOW; YO-YO is also visible; 2 poss secured storage areas and additional facilities
235				48	45	USSR	F			Prob test stand in small gully 5 miles S of KAPUSTIN YAR
235				48	45	USSR	F			KAPUSTIN YAR; extensive new construction, RR yard, and u/i installation with 2 RR spurs E of town

SPB Form 10 (Revised)

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NOTE:

All exposure numbers are title numbers.

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235				48	51	USSR	F			Open-pit mining area; 3 large and several small pits N and NE of Ozero Inder (reported borax production here); many paths
235				48	47	USSR	F			Pontoon bridge on marsh, near establishment with 3 large and numerous small bldgs; numerous tracks, continuing on next five exps
235				48	46	USSR	F			Secured installation with 6 bldgs, 3 u/i small structures; 12 miles from a similar area on camera [redacted] 25X1D
235				48	46	USSR	F			SHUNGAY Sta on Saratov-Astrakhan RR; settlement with group of 4 large, 9 small bldgs in fenced area; open storage, 3 tanks; heavy tracking in all directions
235				48	46	USSR	G			Poss electronic tracking site; straight road leads into road network on exp [redacted] 25X1D
235				48	46	USSR	G			Prob launching pad u/c at SE corner of triangular area, consists of a tower beside a block centered on a pad 200' square, several concrete revetments or entrances around pad with paved ramps to 2; 2 excavations in hexagonal areas each approx 1,000' from opposite corners of pad, with which they are connected by trenches which [redacted] 25X1B
										u/c; fence with guard towers around center portion, fences around hexagonal areas; several revetments outside
235				48	46	USSR	G			Prob square launching pad at NE corner of triangular area, similar to one u/c at SE end; with loop access roads and revetments or

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	Cam.	Exp.	Time	Lat. N	Long. E					
										entrances; underground components suggested by surface configuration and color tones and maximum security fences with guard
25X1D										towers (see camera [redacted] exps 25X1D [redacted] 25X1D)
235	[redacted]	[redacted]	[redacted]	48	46	USSR	G			Missile-launching complex with 2 prob launching pads at NE and SE corners of triangular area; network of paved roads and tracks
	[redacted]	[redacted]	[redacted]							linking secured storage area, prob instrument bldgs, support bldgs; (see [redacted] and 25X1D This entry summarizes 2 preceding entries
235	[redacted]	[redacted]	[redacted]	48	46	USSR	G			Two adjacent maximum security areas north of triangular area; prob storage and administration
235	[redacted]	[redacted]	[redacted]	48	46	USSR	G			Maximum security area W of W corner of triangular area, with paved road leading through 2-level bldg approx [redacted] 25X1D
235	[redacted]	[redacted]	[redacted]	48	46	USSR	G			Secured bldg group with 6 large, several small bldgs, motor pool, tower, and stack; trench scars lead E across road to a maximum
	[redacted]	[redacted]	[redacted]							security area with 2 bldgs and u/i structure and E toward launching complex
235	[redacted]	[redacted]	[redacted]	48	45	USSR	G			RR line from Stalingrad; Volga flood plain
235	[redacted]	[redacted]	[redacted]	48	51	USSR	F			Much track activity and surface working, poss borax and salt recovery

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235				48	47	USSR	G			Large bombing/missile range w/many craters and approx 10 circular ground zeros; 4 large squares w/smaller squares in center
235				48 48	46 47	USSR	G			4 poss down-range stations 5 miles apart aligned in N/S direction, and a 5th station approx 12 miles east of this line; poss. 25X1D
										cable scars connect stations [REDACTED]
235				48	46	USSR	G			Two prob cable scars, one extending from down-range station near small pond, the other connected to E/W cable which parallels Saratov-
										Astrakan RR; both converge and run approx 25 miles to missile-launching site
235				48	46	USSR	G			6 aiming points, 4 a/c silhouettes, 3 u/i a/c
235				48	46	USSR	G			Missile-launching site u/c in large double-fenced area w/guard towers; one launching pad appears to be complete and another in early stages
										of construction; site served by rail and highway; many tracks and cable scars (see [REDACTED] 25X1D
235				48	46	USSR	G			16 empty "U"-shaped revetments
235				48	46	USSR	G			3 aiming points

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235				48	46	USSR	G			Poss missile launching site u/c, rail-served; several secured storage areas nearby
235				48	46	USSR	G			4 Bulls, 4 Beagles, and 2 MIG-type a/c in open field 3 miles SE of Vladimirovka A/F
235				48-18	46-10	USSR	G			Vladimirovka A/F; concrete runway approx 7,200' x 250' oriented NW/SE with GCA system; loop-type taxiway w/2 small parking aprons on
										either end of runway and 3 large parking aprons in center of taxiway; firing butt at end of taxiway extension w/2 hardstands
										SE of field; fenced maintenance and poss storage facility w/2 parking aprons within fenced area; 2 POL storage, 1 of which u/c; 1 large hangar-type bldg
										w/rail service through bldg; a/c: 8 Bulls, 36 Beagles, 4 Cabs, 1 Crate/Coach, 16 poss Flashlights, 6 Badgers, 8 MIG-type, 1 Colt, 2 prob
										Hares, 1 u/i swept-wing jet, 6 u/i s/e, 1 poss u/i s/e
235				48-17	46-13	USSR	G			Akhtyuba A/F; natural surface runway approx 7,500' x 400'; a/c: 7 Beagles, 3 MIG-type; field poss used as auxiliary landing ground
235				48	46	USSR	G			VLADIMIROVKA; extensive new construction; prob support facilities for missile-test area
235				48	46	USSR	G			AKHTYUBA; RR classification yard and prob brickyard; 600' steel-truss RR bridge

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235				48	46	USSR	G			PETROPAVLOVSKIY; dock facilities on Volga River; barge-repair yard; poss salt mill; POL storage
235				48	45	USSR	G			STARITSA; agricultural village
235				48	46	USSR	G			CHERNY YAR; dock facilities on Volga River
247				47	51	USSR	F			11 POL storage tanks; prob fish cannery on Ural River
247				47	51	USSR	P			GURIEV; heavy clouds
247				46-55	51-40	USSR	G			Petroleum port, sand island area; basin and dockage for two large tankers, one occupied by 290' tanker; POL storage with two 100'-diam
										tanks, two smaller tanks; poss pipeline leading NE
247				46	51	USSR	G			Workers' settlements along Kurilkin River
247				47	52	USSR	G			Workers' housing and salt working along Ural River
247				46	51	USSR	G			Lighthouse on small bar

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	Cam.	Exp.	Time	Lat. N	Long. E					
247				46	51	USSR	G			Approx 10 cargo-type boats
247				47	51	USSR	G			Salt workings
248				45	43	USSR	F			DIVNOYE; 6 large warehouse-type bldgs poss for grain storage; small RR yard; turn-around; approx 40 open grain-
										storage stacks adjacent to RR turn-around; 4 round storage tanks; 7 poss POL storage tanks (2 large, 5 medium)
248				45	43	USSR	F			DERBETOVKA; a large area of the village has been abandoned 25X1D
248				44	43	USSR	P			PYATIGORSK; mining activity, u/i industry, storage facilities along RR, MIS [REDACTED]
248				44-03	43-01	USSR	F			Pyatigorsk A/F; (see camera [REDACTED]) 25X1D
248				47	44	USSR	G			KEKE BULUK
248				46	43	USSR	G			BISLYURTA; prob RR line u/c, graded and drained
248				45	43	USSR	G			Small u/i mining operation

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248				45	43	USSR	G			VOZNESENSKOYE
248 and 249				44	43 42	USSR	G			Pyatigorsk uranium mines; mines, spoil banks, and exploration trenches encircle Gora Beshtau and Gora Sheludivaya, NW of Pyatigorsk; new roads; new settlement of multiple-housing units u/c N of Gora Sheludivaya
248				44	43	USSR	G			ZHELEZNOVODSK; RR spur and 3-track terminal
248				44-03	43-01	USSR	G			Pyatigorsk A/F; sod landing area approx 1,700' x 1,800', can extend N or W; one terminal, 1 other bldg; 4 revetments; prob POL storage; a/c: 1 Colt, 7 u/i light conventional a/c (see camera [redacted] 25X1D
248				44	43	USSR	G			PYATIGORSK; RR station and yards, warehouse group, lumber storage area with bldg group u/c, two lime plants, quarry N of town
248				43	43	USSR	G			Abandoned RR line; rails gone, most bridges out; former junction, [redacted] 25X1D
248				43	43	USSR	G			Diversion dam and Ter canal
248				47	45	USSR	G			TSAGAN-NUR and TUKTUNSK; poss salt workings

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248				46	44	USSR	G			SARAKHA; poss salt workings
248				46	44	USSR	G			KHARA-BULUK; MTS
248				46	44	USSR	G			TROITSKOYE; MTS; storage facilities
248				46	44	USSR	G			STEPNOY.
248				45	44	USSR	G			VAZDVIZHENSKOYE; mainly agricultural
248				45	44	USSR	G			APANASENKOVSKOYE; mainly agricultural; MTS
248				45	43	USSR	G			KAZGULAK; mainly agricultural
248				45	43	USSR	G			STAVROPOL-KAV KAZSKIG
248				45	43	USSR	G			MALYYE YAGURY; MTS; agriculture storage
248				45	43	USSR	G			KAMBULAT; MTS; agriculture storage

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248				44	43	USSR	G			MINERAL' NYYE VODY; mining activity, cableway leading from mine along RR, large RR locomotive and car repair shop, POL storage, new construction
248				44-14	43-06	USSR	G			Mineral'nyye Vody A/F; sod runway NW/SE 6,500' x 150' in a poss landing area of approx 10,000 x 1,500; one hangar, 2 parking pads a/c: 3 Coach/Crates, 13 Cabs, 1 poss Cab, 3 u/i a/c, approx 5 fuselages stored in open; poss GCA facilities at both ends of field
248				44	43	USSR	G			Poss military camp and storage; new construction
248				44	43	USSR	G			ALEKSANDRIYSKAYA; mining, u/i industry
248				44	43	USSR	G			Power line
248				44	43	USSR	G			NEZTOBNAYA; mining; explosives and POL storage; grain storage and poss mill; u/i industry
248				44	43	USSR	G			GEORGIYEVSK; poss chem plant, mining, rail yard and repair facilities, u/i industry, storage w/10 large tanks
248				44	43	USSR	G			GEORGIYEVSKAYA



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249				45	42	USSR	F			IPATOVO; 11 large ware- house-type bldgs used poss for grain storage; RR-served
249				45	42	USSR	F			5 large warehouse-type bldgs east of KNIGINSKOYE; RR served
249				45	42	USSR	F			KUGUL'TA
249				45	42	USSR	F			Poss strip mining adjacent to the town of PELAGIADA
249				45	42	USSR	G			6 underground storage tanks connected to new A/F u/c near MIKHAYLOVSKOYE; poss concrete plant for construc- tion of A/F adjacent to
										POL tanks (see camera  25X1D  25X1D
249				45	41	USSR	F			Agricultural storage NW of MIKHAYLOVSKOYE
249				45	41	USSR	F			1 large "H"- shaped institutional-type bldg u/c, and 9 large bldgs and 10 small bldgs; this area adjacent to Stavropol West A/F
249				45	41	USSR	F			Agriculture storage west of STAVROPOL
249				45	41	USSR	F			Poss small hydroelectric plant S of SENGILEYEVSKAYA

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249				44	41	USSR	P			ARMAVIR; RR classification yard
249				44-58	41-07	USSR	P			Armavir A/F; 2 POL storage areas, approx 16 hardstands, est 6,000' x 195' concrete r/w extensible at both ends, large parking apron, poss
										ammo storage, modified loop taxiway with 2 interlinks to r/w, poss firing butt, smaller loop on SW side of r/w with approx 12 hardstands, no a/c visible
249				44	41	USSR	F			New RR and poss new pipeline between ARMAVIR and KONOKOVO
249				44	41	USSR	F			Poss agricultural storage; 12 large warehouse-type bldgs adjacent to KAZ'MINSKOYE
249				44	41	USSR	F			Agricultural town of BELOMECHETSKAYA with approx 7 warehouse bldgs (poss agricultural storage) S of town
249				44	42	USSR	P			CHEKESK; poss mining; 11 warehouse-type bldgs, poss agricultural storage
249				44	42	USSR	F			Agricultural village with 5 poss tractors
249				44	42	USSR	P			YESSINFUKI
25X1D										
249				45	42	USSR	G			MIKOLINA BALKA and SHVEDINO

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249				45	42	USSR	G			BLAGODAT NOYE and KONSTANTINOVSKOYE; approx 3 miles SW of BLAGODAT NOYE are 2 similar towers 1 1/4 miles apart
249				45	42	USSR	G			KAMENNY; agricultural village, 1 grain elevator, 10 large warehouses, 4 small POL tanks
249				45-06	42-06	USSR	G			New A/F under construction 4 miles E of MIKHAYLOVSKOYE; runway oriented E/W will be concrete, approx 8,200' x 240' when completed; POL storage u/c with three tanks;
										fenced area approx 1 mile N of the field containing 17 barracks-type bldgs, 6 warehouse-type bldgs, and 3 equipment yards
249				45	42	USSR	G			RR line from junction E of MIKHAYLOVSKOYE into STAVROPOL; several gaps in line
249				45-02	42-01	USSR	G			Stavropol A/F; sod landing area 3,700' x 2,200', 1 terminal bldg, 4 service bldgs, 1 bldg u/c; a/c: 7 Colts, 10 Creeks, 1 u/i
										light a/c (see camera [redacted] 25X1D [redacted] 25X1D)
249				45 45	41 42	USSR	G			STAVROPOL; RR terminal, yards and shops, new RR u/c leading SE and NE, POL and gas storage, industries and warehousing near RR terminal, several bldgs in city and new housing area on S border u/c, quarries or strip mines S of city with large u/i processing plant adjoining one
249				45-01	41-53	USSR	G			Stavropol West A/F; a/c: 3 Creeks, 6 u/i light a/c, 1 u/i glider, 2 silhouettes; sod landing area 4,000' x 5,000'

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249				44	41	USSR	G			TATARSKOYE; new highway leading S and RR line u/c leading W 25X1D
249				44	41	USSR	G			Nevinnomyssk Canal; [redacted] section on [redacted] with two construction shafts still open 25X1D
249				44	41	USSR	G			NADZORNY on Kuban River; Canal Nevinnomyssk enters [redacted] here, does not return to river as NL 37-12 of AMS Series N501 shows (see 25X1D)
249				44	41	USSR	G			Station and 4-track yard, Rostov-Baku RR 25X1B
249				44	41	USSR	P G			BOGOSLOVSKOYE; 4-track RR yard and warehouse group
249				44	41	USSR	G			Nevinnomyssk Canal and diversion dam, Kuban River
249				44-40	41-55	USSR	G			Nevinnomyssk A/F; concrete runway 3,200' x 260' u/c using prefabricated blocks; prob drainage u/c; construction-materials yards SE of
										A/F; present A/F 4,200' x 6,500', expansion poss to NE and NW; no a/c
249				44	41	USSR	G			NEVINNOMYSSK; RR junction and Kuban River bridge, yards, shops, and locomotive repairs; warehouse area, POL and gas storage; several bldg groups u/c

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249				44	42	USSR	G			GORA BYK uranium area NW of PYATIGORSK; approx 10 active mines
249				44	42	USSR	G			Thermal or thermochemical processing plant NW of Gora Sheludivaya, with coal storage, thermal power plant with 2 stacks, battery
										of 8 small tanks, 2 cooling towers, 1 large and 2 smaller warehouse-type bldgs, 3 large monitor-roofed bldgs, and 5 others,
										all connected by overhead pipes or conveyors, and administration and support bldgs; area served by extension of RR branch line
249				45	42	USSR	G			PETROVSKOY; mining; MTS; poss motor-vehicle repair; u/i industry; RR yard and poss RR shop; new construction
249				45	42	USSR	G			SPITSEVSKOYE; mainly agricultural
249				45	41	USSR	G			BESHPAGIR; MTS, agricultural storage, mining
249				44	41	USSR	G			High-pressure-head power plant on canal approx 3 miles SE of BOGASLOVSKOYE; 25X1D also small transformer yard (see [redacted])
249				44	41	USSR	G			BOGASLOVSKOYE; mining; mainly agricultural
249				44	41	USSR	G			OL'GINSKOY; mining, u/i industry, storage facilities, approx 400' rail bridge

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249			44	42	USSR	G			Rail yard w/approx 130 cars
249			44	42	USSR	G			KURSAUKA; rail yard, u/i industry, poss storage area
249			44	42	USSR	G			U/i fenced area
324			43	42	USSR	P			Poss uranium mining; mines located south of YESSENTUKI
324			43	42	USSR	P			KISLOVODSK
325			43	43	USSR	P			3 power lines from PYATIGORSK to KYZBURUN PERVY
325			43	43	USSR	F			ZOL'SKAYA
325			43	43	USSR	F			MALKA
325			43	43	USSR	F			KUBA
325			43	43	USSR	P			KYZBURUN VTOROY and KYZBURUN PERVY; expansion is present in both towns

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325				43	43	USSR	P			BAKSAN, STARAYA KREPOST, and KYBURUN TRETIIY
325				43	43	USSR	P			BAKSANENOK and KISHPER
325				43	43	USSR	P			CHEGEM VTOROY and CHEGEM PERVY
325				43	43	USSR	P			NAL'CHIK, VOYLAULN' ALEKSANDROVSKAYA, and NARTAN
325				43	43	USSR	P			New u/i town NW of KAKHUN with a large industry serviced by RR facilities
325				43	43	USSR	F			Poss abandoned or dismantled military camp east of ALTUD
325				43	44	USSR	P			PROKHLADNYY; large grain storage, approx 43 prob grain stacks; poss motor vehicle repair shop; brick-25X1D yard and 2 prob agricultural storage areas (see camera [redacted] 25X1D)
325				43	44	USSR	F			Prob MTS
325				43	44	USSR	F			Highway bridge approx 320' long over Terek River from MOZDOK to PREDMOSTNY, with another bridge poss u/c nearby

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25X1D

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				43 43	44 45	USSR	F			PYATIGORSK-GROZNYI oil pipeline
325				43	45	USSR	P			GORA-GORSKAYA; large oil field with numerous derricks and 4 large POL and 7 prob small POL tanks connected by pipelines to the PYATIGORSK-GROZNYI oil pipeline
325				43	45	USSR	P			Prob pumping station with 2 large and approx 8 small POL storage tanks; pipeline connects with PYATIGORSK-GROZNYI oil pipeline, approx 7 miles south of VERKHNIY NAUR
325				43	45	USSR	F			Prob MTS between MEKEN'-YURT and SAVEL'YEVSKAYA
325				43-34	45-32	USSR	P			U/i A/F NE of KALINOVSKAYA; sod surface landing area approx 10,000' x 2,300'; open parking; a/c: approx 19 s/e fighters; no facilities observed
325				43	45	USSR	P			ZAGRADINA; oil field, poss connects to the PYATIGORSK-GROZNYI oil pipeline; approx 5 large and 4 small POL storage tanks
325				43	45	USSR	F			Poss MTS approx 2 miles NE of KALINOVSKAYA
325				43	45	USSR	P			Approx 3 NM SE of Kalinovskaya on the Terek River is located a large oil field with numerous oil derricks, 6 large POL storage tanks and approx 16 small POL tanks located in mouths of ravines

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				43	45	USSR	F			New canal u/c approx 10 miles E of KALINOVSKAYA
325				43	45	USSR	F			Poss water-gate control system u/c on Terek River 10 miles SE of KALINOVSKAYA
325				43	45	USSR	F			Poss Groznyy thermal power plant, served by RR
325				43	45	USSR	P			Groznyy oil field; numerous derricks, equipment, open-pit storage, warehouses, misc workshops and numerous gathering POL storage tanks; area extensively developed
325				43-22	45-38	USSR	P			Groznyy Northwest A/F; sod surface; approx landing area 9,500' x 3,600'; poss underground POL storage, poss ammo storage, small A/F facilities available; 25X1D
										poss 8 unoccupied AA positions; a/c: 63 s/e (see [redacted]) 25X1D 25X1D
325				43	45	USSR	F			Groznyy; industrial town [redacted]
325				43	45	USSR	F			Groznyy POL refinery complex; large thermal power plant, approx 50 underground POL storage tanks, approx 300 above-ground POL storage tanks, open-pit storage, large water reservoir and industries associated with POL refineries, approx 7 POL storage tanks u/c, approx 18 gas storage tanks, new housing construction area with extensive development 25X1D

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				43	45	USSR	F			New poss first class road u/c, west from GROZNY
325				43	45	USSR	P			KRASNOARMEYSKOYE, GEKHI, VALERIK, KATYR-YURT, and NOVOSEL'SKOYE
325				41	44	USSR	F			TBILISI; town and industrial complex; diversion dam, poss steel and machine plants, RR yards and shops, locomotive- and car-repair plant, poss
										machine-tool plants, poss asphalt and concrete plant, poss munitions storage, poss ordnance and machine plant, poss hydroelectric power plant across Kura River,
										approx 11 POL storage tanks (2 large and 9 small); poss military area, open storage, poss motor vehicle repair, prob radio station and air-
										frame plant; 2 prob communications installations w/numerous pole-type antennae within fenced areas; two 8-gun heavy AA emplacements (one
										prob occupied); one 6-gun AA emplacement prob unoccupied, adjacent to communications installation; area under extensive develop-
325				41-41	44-53	USSR	F			Tbilisi/Navtlug A/F; sod surface; landing area approx 5,000' long, 1,000' at widest, 620' at narrowest; approx 30-40 revetments,
										4 poss hangars, shop, and repair storage; no a/c visible (see camera exp
										25X1D 25X1D
325				41	44	USSR	F			KODA; poss military camp and light a/c landing ground

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				40	44	USSR	P			KIROVAKAN; prob chemical plant, poss grain storage, RR yard, 2 power lines (see camera [REDACTED] 25X1D
325				40	44	USSR	P			Poss explosives storage, 6 large warehouse-type bldgs and 4 small bldgs in isolated double-fenced area SW of AMAMLU; u/i industry in town
325				40	44	USSR	P			Poss military camp and training area 2 1/2 miles NW from VAGARSHAPAT
325				40	44	USSR	P			Poss military camp and training area 1 mile south of VAGARSHAPAT
325				40	44	USSR	P			ULUKHANLU; RR junction and RR yard; SW of YEREVAN
325				43	44	USSR	G			PROKHALADNYI; RR junction, 12-track yard, shops, locomotive repair, large open pit prob for clay or lime (see [REDACTED] 25X1D
										[REDACTED]
325				43	44	USSR	G			Dam and control works u/c on Terek River will augment supply to Imeni Lenina Canal
325				43	44	USSR	G			Large storage area u/c; approx 60 revetted warehouse-type bldgs widely spaced en echelon, room for approx 20 more; on RR spur (see camera [REDACTED] 25X1D

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				43	44	USSR	G			Prob pipeline pumping station (see camera [redacted]) 25X1D
325				43-44	44-40	USSR	G			Mozdok A/F; concrete EW runway 7,800' x 250', taxiway, and apron 4,800' x 250', all parallel, with connecting taxiways; firing butt; poss underground POL storage; motor pool; several small bldgs with at least 3 prob u/c; a/c: 50 Bulls (see camera [redacted]) 25X1D
325				43	44	USSR	G			MOZDOK; 8-track RR yard, warehouse and POL storage areas; ceramics plants near clay pits
325				43	45	USSR	G			Secured POL storage and prob pipeline pumping station; pipeline leads N & S ([redacted]) 25X1D
325				43	45	USSR	G			ISHCHERSKAYA; RR station with 6-track yard and turning Y; pipeline crossing of Terek River u/c, appears to have deck for highway
325				43	45	USSR	G			Oil field on summit and N slope of Khrebet Terskiy, 8 NM N of GROZNY; at least 40 derricks, with collecting tanks, access trails
325				43-21	45-40	USSR	G			Grozny North A/F; sod landing area approx 2,500' x 4,500'; 1 hangar approx 110' x 160', several small bldgs; a/c: 1 Creek, 6 poss Mules
325				43-22	45-38	USSR	G			Grozny Northwest A/F; sod landing area; end adjoining Grozny North A/F shown (see camera [redacted])

25X1D

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				43	45	USSR	G			GROZNY; petroleum-refining complex covering approx 2 square miles; RR station with 26-track yard, shops, 2 round houses for locomotive
										repairs; industrial and warehouse-bldg groups (see camera [redacted] 25X1D)
325				43-17	45-46	USSR	G			Groznyy East A/F; 2 parallel runways 6,400' long, 1 3,200' x 250' of concrete, 700' x 165' of prepared base and 2,500' x 150' of natural
										surface; the second of older, u/i surfacing material; a/c: 1 Beagle, 1 Creek, 24 Fagot/Frescos, 1 prob Mile, 1 prob Colt; south of field: 3
										hangars, 5 small bldgs, 1 8-gun AA battery; north of field: prob military Hq with 6 large, numerous small bldgs, revetted storage, 1 motor pool
325				43	45	USSR	G			South Groznyy oil field, wells, gathering tanks and related equipment; approx 20 small POL storage areas; field lies south of settle-
										ments along ridge
325				43	45	USSR	G			One 8-gun AA battery approx 3 NM S of center of GROZNY and 1 NM SE of NOVYYE ALDY village
325				43-11	45-44	USSR	G			Groznyy/Goyty A/F; located 8 NM S of GROZNY; sod landing surface approx 10,000' x 4,000' to 6,000'; a/c: 14 Creeks, 44 prob Max;
										POL storage, 1 large and several small bldgs, equipment sheds; no hangars

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				41	44	USSR	G			Defences of Tbilisi perimeter; 8-gun AA battery located E of reservoir; 6-gun AA batteries 2.4 and 3.0 NM N of Tbilisi/Orkhevi A/F;
										4-gun battery 1 NM E of last; 6-gun battery 1.4 NM S of reservoir
325				41-40	44-57	USSR	G			Tbilisi/Orkhevi A/F; NW-SE concrete runway 8,000' x 200'; taxiways and hard- stands; 3 lattice towers in line with and approx 2,700',
										3,500', and 3,900' E of, runway; terminal bldg 400' x 60' and 100' u/c; 2 hangars, 135' x 220' and 100' x 100'; equipment
										shed, 4 other bldgs, 1 with poss radar on roof; small fenced bldg in line with and approx 1,500' W of runway; a/c: 12 Cabs,
										9 Coach/Crates, 4 Mules, 5 Creeks, 1 Colt, 3 Hounds; radar on hill N of terminal bldg; 8-gun AA battery S of field; revetted explosives
										and other storage in maximum security area W of field
325				41	44	USSR	G			Communications station; consists of bldg approx 45' x 65', with 4 towers, and small bldg, with 2 towers, in secured area
										approx 3 NM NE of Tbilisi/ Orkhevi A/F and 4 NM NW of Tbilisi/Vaziani A/F
325				41-41	44-53	USSR	G			Tbilisi/Navtlug A/F; E half of natural surface landing ground; no a/c or bldgs; revetments old, not maintained (see [REDACTED])

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				41	44	USSR	G			TBILISI; RR junctions and associated industrial area at E end of city; pipelines and wire lines leading E (see camera [redacted]) 25X1D
325				41-38	45-02	USSR	G			Tbilisi/Vaziani A/F; W end of runway (see camera [redacted]) 25X1D
325				41-39	44-56	USSR	G			Tbilisi/Soganlug A/F; concrete runway 5,800' x 250'; taxiways and hardstand; no hangars; 1 check-out shed; a/c: 2 Cabs
325				41	44	USSR	G			RUSTAVI; W side along river; bridge and concrete dam; water works and settlement W of river (see [redacted]) (Note: area 25X1D)
										reported on some maps as poss Agtaglya A/F, W of RUSTAVI, is cultivated land)
325				41-32	44-50	USSR	G			Tbilisi South A/F site; bombing range with 4 bombing targets; one group of 10 plane silhouettes, 1 group of approx 15, with numbers
										beside most; other numbers, also the Cyrillic letters KP; looks very clean, without craters
325				41-28	44-47	USSR	G			Tbilisi/Sandar A/F; concrete runway NW-SE 3,200'; second runway, oriented NE-SW, has 3,200' x 250' concrete surface plus 3,200' x 250'
										natural surface extension; 10 misc bldgs, 1 with a mast; equipment sheds, motor pool; POL storage; 1 poss firing butt; a/c:
										63 Fagot/Frescos, 2 Creeks, 1 s/e a/c u/i

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325				41	44	USSR	G			SADAKHLO; RR shipping point for quarry or open pit mine approx 4 NM W of RR
325				41	44	USSR	G			BENDIK; mining activity E of town, prob explosives storage, two warehouse-type bldgs within fenced area, new construction activity
325				40	44	USSR	G			U/i town NE of AKORI, u/i industries and storage, 4 POL tanks
325				40	44	USSR	G			TSATER; 2 shaft mines and large ore-processing plant 2 miles N of town, strip mine E of town, flood-control dam on the Agzy-
										Beyu River diverting water to power plant on Bambah River S of TSATER, transformer substation for electrified RR, RR bridge 220' long
325				40	44	USSR	G			KIROVAKAN; large prob chemical plant; military barracks area in center of town with 15 barrack-type bldgs, 30 warehouse-type
										bldgs, 43 prob trucks in area; military barracks area in the W end of town with 7 barrack-type bldgs, 9 warehouse-type bldgs, 30
										artillery pieces, 25 prob trucks; power line extending from TSATER to chemical plant (see camera [REDACTED] 25X1D
325				40	44	USSR	G			Prob sawmill SE of VARTANLU
325				40	44	USSR	G			Military training area in mountains S of KIROVAKAN

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	Cam.	Exp.	Time	Lat. N	Long. E					
325				40	44	USSR	G			Gyumush hydroelectric plant 14 miles N of YEREVAN; 5 penstocks connect with plant and 6 high-tension lines lead out of trans- 25X1D
										former yard; smaller hydro- electric plant immediately S (see camera [REDACTED]) [REDACTED] 25X1D
325				40-18	44-34	USSR	G			Yerevan/Yegvard A/F; 2 graded earth runways each 3,400' x 260' oriented N/S and NE/SW, loop taxiway and 11 revetments; no
										other facilities visible; a/c: 1 airship; prob communications center with 1 large transmitting bldg and 2 antennae NE of A/F; prob cable near river runs W to a large bldg 400' long by 150' at the widest part; small hydroelectric plant, (see [REDACTED]) 25X1D
325				40	44	USSR	G			Communications center; 12 bldgs and 2 tall antennae within double-fenced area with guard tower adjacent to military camp (see 25X1D
										camera [REDACTED]
325				40	44	USSR	G			Military camps on N edge of YEREVAN; largest camp contains approx 75 barracks and warehouse-type bldgs, 40 artillery pieces, and 180
										vehicles; radio station N of camp with 6 bldgs and 1 antenna within fenced area
325				40	44	USSR	G			YEREVAN; hydroelectric plant; 4 penstocks connect to plant, and 7 power lines extend from transformer yard; aluminum plant,

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	Cam.	Exp.	Time	Lat. N	Long. E					
										copper rolling mill, synthetic rubber and chemical plant, underground POL storage, electrical machine plant, numerous
										other industries, storage and rail classification yards; military camp in center of town with 55 barracks or warehouse-type bldgs and 100 vehicles;
										communications center E of town with 1 transmitter bldg and 1 tall lattice-type tower approx 500' high within fenced area 480' x
										560'; 2 large highway bridges 1,100' x 90' and 620' x 95' located in city
325				40-07	44-28	USSR	G			Yerevan A/F; hard-surface earth runway 7,200' x 200'; 2 hangars, terminal bldg, shop area, POL storage, 36 revetments, ammo
										storage; hard surface fighter strip 6,200' x 150' parallel to earth runway; a/c: 2 Crates, 1 Coach, 3 Cabs, 2 Colts, 1 Creek, 28
										Frescos, 1 u/i a/c
325				43	43	USSR	G			NOVO-PAVLOVSKAYA; grain storage, u/i industry, poss mining activity, MTS with poss repair facilities
325				43	43	USSR	G			New dam, power plant, and canal system in the ORLOVSKIY-PEGUSHIN area; new construction; MTS
325				43	43	USSR	G			SOLDATSKAYA; large MTS, many trenches and empty revetments, rail yard approx 2 miles NE of town, u/i industry and poss storage

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	Cam.	Exp.	Time	Lat. N	Long. E					
										near rail yard
325				43	43	USSR	G			PROKHLADNY; locomotive repair shop, poss grain storage and flour mill, many trenches (see camera [redacted]) 25X1D [redacted] 25X1D
325				43	44	USSR	G			Poss hydroelectric plant
325				43	44	USSR	P			Pumping station with 3 large tanks and several bldgs in fenced area approx 5 miles from Mozdok A/F (see [redacted]) 25X1D
325				43	44	USSR	G			1 poss Bull in flight 25X1D 25X1D
325				43	44	USSR	P			Large fenced storage area w/approx 60 bldgs, approx 5 miles from Mozdok A/F [redacted]
325				43-47	44-34	USSR	P			Mozdok A/F (see camera [redacted]) [redacted] 25X1D
325				43	46	USSR	F			GUDERMES; rail yard w/poss locomotive-repair facilities
325				43-24	46-06	USSR	F			Gudermes A/F (far oblique); NE/SW poss black-top runway approx 6,000' x 150'; a/c: 21 MIG-type, 4 poss u/i
325				41	45	USSR	F			Bridge across Iora River, approx 4,800' long

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325				41	45	USSR	G			Power plant; canal feeding water to plant winds along base of mountains and in several cases tunnels through mountains
325				41	45	USSR	G			Poss military camp with approx 200 vehicles
325				41	45	USSR	G			Two bridges, each approx 500' long, across Iora River
325				41	45	USSR	G			Poss military camp and training area; much activity, several gun positions (AA and field artillery) which appear empty; new construction
325				41-42	45-10	USSR	G			Tbilisi/Sartichala A/F; appears abandoned, poss asphalt runway approx 3,000' x 150', 23 empty revetments, no a/c
325				41-38	45-02	USSR	G			Tbilisi/Vaziani A/F; NW/SE concrete runway approx 7,200' x 150', concrete taxiway w/approx 60 hardstands and 2 parking areas
										130' x 60', 2 large hangars; a/c: 13 Beagles, approx 74 MIG-type, 5 Hares, 2 poss u/i; POL storage area 3 NM N of A/F; double-fenced
										poss ammo area 2.5 NM N of A/F (see camera [redacted])
325				41	45	USSR	G			Large fenced communications center SE of RUSTAVI contains large number of pole-type antennae and large communication bldg in

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	Cam.	Exp.	Time	Lat. N	Long. E					
25X1D										center of area (see [redacted]) 25X1D
325				41	45	USSR	G			RUSTAVI; complex, metallurgical works, nitrogen plant u/c, thermal power plant (see camera [redacted]) 25X1D
325				41	45	USSR	G			Krug DF; approx 4 NM S of RUSTAVI communications center 25X1D
325				41	45	USSR	G			Hydroelectric power plant at base of hill; canal feeding plant runs along base from dam approx 2 NM away
325				41	45	USSR	G			Poss mining activity
325				40	44	USSR	G			Hydroelectric development, including diversion canal, reservoir, penstock, power plant, power line (see [redacted]) 25X1D
325				40	44	USSR	G			RR construction
325				40	44	USSR	G			Industrial plant poss u/c 25X1D
325				40	44	USSR	G			Secured communications installation (see [redacted]) 25X1D
326				40-04	53-24	USSR	P			Yangadzha A/F; concrete r/w approx 6,400' x 140', extensible at both ends; taxiway SW of r/w with 2 connecting access taxi

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										strips; arrow-shaped alert apron at each end of r/w; POL storage; firing butt; no hangars visible; served by both RR and hwy; approx
25X1D										15 barrack-type bldgs; a/c: 28 u/i fighters
326				40	53	USSR	G			New u/i installation 6 miles E of KRASNOVODSK; extensive strip mining serviced by RR and hwy
326				40	53	USSR	F			Approx 17 a/c silhouettes, (10 bomber and 7 fighter type)
326				41	52	USSR	G			KARA-BOGAZ-GOL; town appears to be abandoned; approx 10 bldgs still standing, 4 appear partially sand covered; 2 boats approx 50'-
										60' long
326				40	53	USSR	G			KRASNOVODSK; RR terminal and dredged harbor, with 4 large piers with track; 1,350' wharf with 6 large cranes; 1 265' ship, 2
										230' ships, and approx 20 smaller ships in port; RR yards, shops, and locomotive repair (see WAC 339, camera [REDACTED] 25X1D
326				40	52	USSR	G			KRASNOVODSK; petroleum refinery and tank farm with RR siding; underground storage adjoining on NE
326				40-03	52-59	USSR	G			Krasnovodsk A/F; runways: N-S, 8,200' x 265' concrete; N-S, 3,200' x 265' concrete; old E-W runway used as taxiway; unpaved taxiways

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	Cam.	Exp.	Time	Lat. N	Long. E					
										with 72 revetted parking slots, 20 hardstands without revetments, ammo storage area and GCA system; POL storage and a/c repair shop;
										a/c: 2 Bulls, 2 Beagles, 20 Flashlights, 42 MIG-type, 2 Cabs, 1 Colt, 7 Creeks, 1 Hound, 10 Hare, 7 u/i s/e; also 2 Hare and 10
25X1D										MIG-type in shop area; defenses: 2 AA batteries, 1 unoccupied; pole line leads N (see [redacted] 25X1D
326				40 40	52 53	USSR	G			Two communication centers, located approx 2 NM E of and 1/2 NM W of A/F, each with 1 revetted bldg and 6 other bldgs; approx 20 poles
326				40	52	USSR	G			Electronics center; very large u/i screen-like structure in fenced area approx 1 NM W of A/F; 2 tall masts
326				40	52	USSR	G			2 poss radar sites; 1 W of Krasnovodsk A/F and N of communications center, 1 on bluff E of petroleum refinery
326				40	53	USSR	G			Strip mining
326				40	53	USSR	G			2 bombing ranges
326				40	53	USSR	G			U/i mining activity, consisting of rectangular pit near large pond from which a trench leads toward pit; looks abandoned;
										poss sulfur site

TOP SECRET CHESS

TOP SECRET CHESS

CIA / RR-HTA

25X1D

MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57Date of Report 24 September 1957 Mission No. B 4059

WAC & BE No.	Photo Ident.			Coordinates		Country	Qual.	Photo Point	Ret.	Description
	Cam.	Exp.	Time	Lat. N	Long. E					
326				40	52	USSR	G			Prob communications station; 2 towers beside a quonset- type bldg; poss power line from Krasnovodsk ends here; group of small bldgs nearby
326				40	52	USSR	G			Poss communications station; 6 large and 2 small bldgs; 4 prob trucks
326				40	52	USSR	G			Salt recovery; 2 large ponds with drains, narrow- gauge RR
326				40	52	USSR	G			Dredged channel with "Y" mouth W of KRASNOVODSK (see [REDACTED] 25X1D [REDACTED] 25X1D
326				40	52	USSR	G			2 large revetted bldgs (see [REDACTED] [REDACTED] 25X1D
326				40	52	USSR	G			1 secured area w/2 bldgs (see [REDACTED]
326				40	52	USSR	G			KIYANIY; lighthouse; salt workings; narrow-gauge RR; loading pier 4 miles S
326				41	52	USSR	G			BEK-DASH; u/i poss research station; new construction; several power lines; electric power lines being erected
326				41-34	52-32	USSR	G			Bek-Dash A/F; 7,000' x 110' black-top runway N-S; no a/c
326				41	52	USSR	G			Lighthouse on island approx 8,000 yds off shore from Bek-Dash; 15 other bldgs on island

TOP SECRET CHESS

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CIA / RR-HTA

25X1D

MISSION COVERAGE SUMMARY

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WAC & BE No.	Photo Ident.			Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Cam.	Exp.	Time	Lat. N	Long. E					
326				41-45	52-30	USSR	G			Landing area; 6 bldgs, 5 tents; a/c: 1 Colt
338				39	53	USSR	P			CHELEKEN; oil field w/approx 14 POL storage tanks, 8 oil derricks; poss pipeline; new construction and 1 pier; new city complex SE of CHELEKEN; mining activity
338				39	53	USSR	P			DAGADZHIK; mining; approx 10 POL storage tanks; pipeline from CHELEKEN to DAGADZHIK
338				39	53	USSR	G			Tower approx 50' high near E end of sand island SE of KIZYL-SU; prob navigation aid
338				39	53	USSR	G			KIZYL-SU; fishing village, small boat harbor, and fish cannery; lighthouse; dredged channel to Krasnovodsk Bay (see
										[REDACTED] 25X1D
338				39	53	USSR	G			POL port 3 NM E of KRASNOVODSK; 16 open reservoirs, approx 100 tanks of various sizes; RR sidings; dredged channel
										and turning basin with 3 piers, 1 with RR track; 400' tanker and 1 smaller ship alongside; reservoirs empty, poss repairs or u/c; bluff to N has three 8-
										position AA batteries, prob radar site with u/i device on tall mast, supporting bldgs
338				39	53	USSR	G			Mys Krasnovodskiy; 13 bldgs in walled compound, incl lighthouse, lattice antenna, and poss radio station

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CIA/RR-HTA

25X1D

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WAC & BE No.	Photo Ident.			Coordinates		Country	Qual.	Photo Point	Ref.	Description
	Cam.	Exp.	Time	Lat. N	Long. E					
338				39	53	USSR	G			KIZYL-SU; small boat-bldg and repair facilities; dredged channel through Mys Krasnovodskiy 8,000 yds SE of KIZYL-SU; poss 25X1D
										Fish cannery in village S of KIZYL-SU (see [redacted] 25X1D [redacted] 25X1D
339				39	52	USSR	G			Dredging operation in channel through Krasnovodsk Peninsula (see [redacted])
339				39	52	USSR	G			Two vessels, one with large deck cargo, in Krasnovodsk Bay
339				39	52	USSR	G			KRASNOVODSK; military area W of city; fenced ammo storage area, HQ-type bldgs, 12 barrack-type bldgs and 98 small living quarters; motor
										pool with approx 66 vehicles; battery of 16 u/i AA weapons near shore, somewhat similar to installation in training area at CHIRCHIK, (see HTA-
										MCS-29-57, p6, [redacted] 25X1D [redacted] 8-gun AA w/4 positions occupied; dredged channel to 2 small berths W of military area, with tracks to area
										and inland (see WAC 326, [redacted] 25X1D [redacted] 25X1D
339				39	52	USSR	G			Channel through Mys Krasnovodskiy; dredging operation underway with dredge and barge in channel; approx 5 barges, one dredge, and 3 tug boats E of mouth of channel (see [redacted] 25X1D [redacted] 25X1D

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25X6

MISSION COVERAGE SUMMARY

Date of Photography 10 September 1957 Report No. HTA-MCS-30-57

Date of Report 24 September 1957 Mission No. B 4059

WAC & SE No.	Photo Ident.			Coordinates		Country	Qual.	Photo Point	Dist.	Description
	Cam.	Exp.	Time	Lat. N	Long. E					
340				39	44	USSR	G			Industrial plant with one bldg prob u/c
340				39	44	USSR	G			Walled compound, poss w/guard towers; trenches in nearby area
340				37-02	41-12	Syria	G			Qamichliye A/F; no a/c

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