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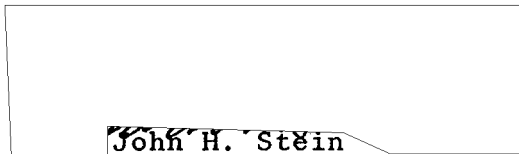
21 NOV 1983

MEMORANDUM FOR: Director of Central Intelligence

SUBJECT : Soviet Nuclear Powered Submarines and Their  
Propulsion Systems

1. The enclosed Intelligence Information Special Report identifies five Soviet nuclear powered submarines and comments briefly on their propulsion systems. The information was acquired from a Soviet with a technical background and good access to the information.

2. Because the source of this report is especially sensitive, this document should be handled on a strict need-to-know basis within recipient agencies.

  
John H. Stein  
Deputy Director for Operations

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- 2 -



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- 3 -

# Intelligence Information Special Report

COUNTRY USSR

[Redacted]

DATE OF INFO. Spring 1983

DATE 21 NOV 1983

SUBJECT

Soviet Nuclear Powered Submarines and Their Propulsion Systems

SOURCE

[Redacted]

Soviet source

[Redacted]

## SUMMARY

This report identifies four Soviet nuclear powered submarines by project number and comments on the type of propulsion system installed in each. A new submarine called "AKULA" is also mentioned.

[Redacted]

END OF SUMMARY

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- 4 -

1. Nuclear reactor KLT-40 is intended for installation on icebreakers being built in Finland for the Soviet Union. The reactor unit itself is not secret, but certain of its systems (steam generator, fuel, control system) are classified TOP SECRET because the OK-650B and OK-900 reactors used in the Soviet Navy and on Soviet icebreakers are identical.

2. A long series of Project 627 "LENINSKIY KOMSOMOL"-type torpedo antiship submarines was built. These submarines had two water-cooled reactors with a power of 150 MW each, and were built in Severodvinsk. The same reactor was installed on submarine Project 659, which had four pairs of 300-mile-range surface-to-surface missiles on deck. The missiles had to be fired when the submarine was surfaced. Several such units were built in Komsomolsk.

3. Project 671--"ZOLOTAYA RYBKA"--was a high-speed torpedo submarine with a liquid-metal-cooled reactor. This unit was supposed to have a high level of automatization which did not require a large crew. There were no ordinary seamen on the unit, only career seamen [sverkhstrochniki] and officers. It was built at the Admiralty Yard in Leningrad. There was an accident involving this unit and the reactor was replaced by a water-cooled reactor. Apparently this unit has not been used since.

4. Previously there had been submarines with Project 645 (Project 627, but with liquid-metal-cooled reactors). There had also been an accident involving one of them, and no more Project 645 submarines were built. There is a new submarine called "AKULA" which apparently has a liquid-metal-cooled reactor.

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