A1. Cover sheet.

1. **NUSH Block**

2. Block cipher. Proposed security level:

   a) *High.* Complexity of a key reconstruction equals to 10^{61} elementary operations with memory requirements for about 10^{16} blocks of ciphertext. An elementary operation is equivalent to encryption, writing to (reading from) memory and comparison of plaintext blocks.

   b) *Normal.* Complexity of a key reconstruction equals to 10^{22} elementary operations with memory requirements for about 10^{16} blocks of ciphertext. An elementary operation is equivalent to encryption, writing to (reading from) memory and comparison of plaintext blocks.

   c) *Normal-Legacy.* Complexity of a key reconstruction equals to 10^{22} elementary operations with memory requirements for about 10^{16} blocks of ciphertext. An elementary operation is equivalent to encryption, writing to (reading from) memory and comparison of plaintext blocks.

   Proposed environment: An eavesdropper knows all the details of the algorithm, can get and write down in memory at most as many as 10^{16} different pairs of plaintext-ciphertext blocks. He can also search through the memory in an efficient way such as a dichotomic search, lexicographic search etc.

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