

Technological Task №33

1	Task Name	"Reconstruction and Resolution of Repair Issues for 327 Aging Bridges While Maintaining Traffic on the Sections of JSC «Kazakhstan Railways»
2	Problem Statement	Currently, there are 327 bridges in defective condition on the balance sheet of JSC "NC "KTZ", which have been in operation for more than 60-100 years and require immediate repair or reconstruction. A solution is needed for this problem that allows for work to be carried out without completely stopping traffic on these sections or constructing bypass routes.
3	Problem Scale	The traditional solution for the reconstruction of these bridges involves dismantling existing spans, replacing substructure blocks, and repairing supports. This would require work to be carried out during specific "windows" with interruptions in train traffic, which would lead to a reduction in train speed or the closure of the track section during construction work. All this would result in significant costs and lengthy implementation due to the time needed for the design and construction of new bridges to replace the defective ones.
4	Current Solutions	-
5	Expected Outcomes	The possibility of carrying out major bridge repairs without completely stopping traffic on these sections or constructing bypass routes.
6	Necessary Research and Work for Problem Solving	-
7	Required Technological Parameters	-
8	Initial Data for Finding Solutions	-
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10	Expert Notes	