**Àñïåêòû îáîñíîâàíèÿ ðàäèàöèîííîé áåçîïàñíîñòè íàñåëåíèÿ ïðè ïðîäëåíèè ñðîêà ýêñïëóàòàöèè ýíåðãîáëîêà № 4 Íîâîâîðîíåæñêîé ÀÝÑ**

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Аннотация. Â íàñòîÿùåé ñòàòüå ðàññìàòðèâàåòñÿ ïðîáëåìàòèêà îáîñíîâàíèÿ áåçîïàñíîñòè ïðîäëåíèÿ ñðîêà ýêñïëóàòàöèè ýíåðãîáëîêà № 4 Íîâîâîðîíåæñêîé ÀÝÑ ñ ó÷åòîì ðåàëèçàöèè êîìïëåêñà ìåðîïðèÿòèé ïî åãî ìîäåðíèçàöèè ñ òî÷êè çðåíèÿ ïðîãíîçà ðàäèàöèîííûõ ïîñëåäñòâèé ïðîåêòíîé àâàðèè.

Êëþ÷åâûå ñëîâà: àòîìíàÿ ýëåêòðîñòàíöèÿ, ïðîäëåíèå ñðîêà ýêñïëóàòàöèè, ïðîåêòíàÿ ðàäèàöèîííàÿ àâàðèÿ, äîçà, ñàíèòàðíî-çàùèòíàÿ çîíà, ìåðû çàùèòû íàñåëåíèÿ.

**Aspects to Justify the Radiation Safety of the Population in the Extension of the Operation of Unit 4 of Novovoronezh NPP**

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Abstract. In the article discusses the problem of safety justification analysis life extension of unit 4 Novovoronezh NPP with regard to the implementation of complex measures for its modernization in view of the prognosis of radiation consequences of design-basis accident.

Key words: nuclear power plant, extension of the operation, the project radiation the accident, dose, sanitary protection zone, population protection.