

ABSTRAK

PT.TJB Power Services merupakan perusahaan Operation and Maintenance PLTU Tanjung Jati B Unit 1 dan 2. Produksi yang terus menerus menyebabkan mesin – mesin bekerja secara continue dan menyebabkan risiko terjadinya kegagalan mesin bahkan dapat menyebabkan produksi terhenti. Secara umum proses produksi dimulai dari penggilingan batubara yang digunakan untuk bahan bakar memanaskan air menjadi uap kering yang dialirkan ke turbin untuk menggerakkan generator yang menghasilkan listrik. Menurut history tahun 2018 tercatat bahwa tingkat availability Unit 2 sebesar 93,76% yang semula targetnya 100% mengalami penurunan menjadi 88,12%. Hal ini terjadi disebabkan oleh lamanya outage. Oleh sebab itu, perlu dilakukan analisa kegagalan dan kemudian memberikan usulan kebijakan perawatan pada perusahaan agar asset tetap berjalan secara continue. Reliability Centered Maintenance II adalah suatu metode yang dapat digunakan untuk melakukan evaluasi tindakan perawatan tiap komponen. Dengan penerapan metode ini diharapkan perusahaan dapat mengetahui RPN dan tindakan perawatan yang baik dalam tiap komponen yang dikemas dalam RCM II Decision worksheet. Dari hasil penelitian didapat nilai Risk Priority Number (RPN) Chain = 120, Scrapper = 84, Casing = 80, Sprocket = 63, Seal Skirt = 60. Mesin SSCC dengan komponen (Chain, Scrapper, Casing Sprocket, Seal Skirt) dari RCM II decision worksheet setiap mode kegagalan mendapatkan usulan tindakan perawatan yang berbeda.

Kata Kunci : Availability, Reliability Centered Maintenance II, Risk Priority Number (RPN) , RCM II Decision Worksheet

ABSTRACT

Abstract - PT.TJB Power Services is an Operation and Maintenance company of Tanjung Jati B Power Plant Unit 1 and 2. Continuous production causes machines to work continuously and causes impacts caused by machine that can be used causing production to stop. In general, the production process starts from the grinding of coal used to fuel heating water into dry steam which is flowed into the turbine to drive generators that produce electricity. According to history in 2018 it was noted that the Unit 2 availability level was 93.76%, which initially had a target of 100% decreased to 88.12%. This happens due to the length of outage. Therefore, it is necessary to analyze the failure and then provide maintenance policy recommendations to the company so that the assets continue to run continuously. Reliability Centered Maintenance II is a method that can be used to evaluate the maintenance actions of each component. With the application of this method the company is expected to know the RPN and good maintenance actions in each component that is packaged in the RCM II Decision worksheet. From the research results obtained Risk Priority Number (RPN) Chain = 120, Scrapper = 84, Casing = 80, Sprocket = 63, Seal Skirt = 60. SSCC machine with components (Chain, Scrapper, Casing Sprocket, Seal Skirt) from RCM II Decision worksheets for each failure mode get different treatment actions.

Keywords : Availability, Reliability Centered Maintenance II, Risk Priority Number (RPN) , RCM II Decision Worksheet