The Performance of Aviation Security Personnel Services at Sentani Airport

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ABSTRACT

Some of the efforts that can be made to improve aviation security performance are by implementing security screening and airport security programme. The study was conducted at Sentani Airport in 2019 using quantitative methods, with the number of research samples taken in total saturation of 50 personnel at Sentani Airport. Data collected through instruments in the form of statement sheets with ordinal scale models that have been tested, linear regression, partial or simultaneous. The research is using path analysis technique. Based on the results of the study show that security screening has a direct effect on flight aviation security of 2.224 and there is a direct influence of airport security programme on Aviation Security Performance of 4.186 and there is a significant positive effect of security screening on airport security programme is 5.491 and based on the results of the study shows that Security screening indirectly has an effect of 1320,879 on Aviation Security Performance through mediation of Airport Security Programme.

Keywords : *Airport; Security; Performance*

A. Introduction

The existence of Sentani Jayapura Airport in Sentani where Sentani as the capital of Jayapura Regency has contributed greatly to the economic development of the region both regionally and nationally, especially in providing ease of mobility for economic actors and the people of Jayapura Regency and its surroundings. Along with increasing development the of air transportation, safety and security factors are considerations. also the main The implementation of this factor to make air transportation as a means of transportation is fast, safe, and convenient. This application is also to prevent the occurrence of nuisance measures against the hokum. Sentani Airport is the airport with the highest aircraft and passenger traffic in Papua. With the large number of passengers coming and going from and to other airports around Papua and outside papua, the level of risk for aviation security disruptions is increasing.

This causes the risk of unlawful actions that cause disruption of aviation security and aviation safety, including: a) There are prohibited items such as air soft guns, air rifles, and samurai. b) Escape of alcoholic beverages that exceed the maximum limit that should be brought on board. c) Letter of Personnel Proficiency (LPP) of flight security personnel who are no longer active. d) Number of human resources (HR) that do not meet the regulations

Based on the description above, shows the Premeriksaan Security is not done properly so that prohibited items pass the inspection and airport security program in the stacked to meet the requirements of Law No. 1 Year 2009 on Aviation, Regulation of the Minister of Transportation Number: PM 80 Year 2017 on National Aviation Security Program and Regulation of the Minister of Transportation Number: PM 137 year 2015 on Aviation Security Training and Education Program. Examination is a series of activities to collect and process data, information, and/or evidence that is carried out objectively and professionally based on an examination standard to test compliance with tax obligations and/or for other purposes in order to implement regulatory provisions (Bernardin, 2010).

Aviation security is a combination of human resources, facilities and materials as well as procedures to protect aviation from unlawful interference (Pramono, 2011). Based on the above understanding. Security Screening is the application of a technique or other way to recognize or detect Prohibited Items that can be used to perform unlawful acts.

Airport Security Program is a written document containing procedures and requirements measures that must be implemented by the Airport Organizing Unit and Airport Business Entity to meet the provisions related to flight operations in Indonesia. Security check procedures for passengers and luggage are listed in the Airport Security Program (Gillen & Morrison, 2015).

Based on (Yoo, 2009) performance is often defined only in the achievement of goals to be measured. But performance is a problem not only of what people achieve it but how they achieve it. Thus, performance connected with achievement, will be implementation, and implementation. Α result of performance can also be related to behavior. appropriate such behavior especially in discretion, and the effective use of the necessary knowledge, skills and purpose competencies. The main of performance assessment should be to provide the best information will allow managers to improve employee performance. Each performance indicator is measured based on certain criteria. In measuring performance, there are criteria or measures that are quantitative (how much), qualitative (how good), timeliness of task execution or product completion, effectiveness of the use of organizational resources, how to perform work, effects on an effort, methods of carrying out tasks, historical standards, zero or absolute standards.



Figure 1. Research Model

Hypotheses are circumstances or events that are expected and based on generalizations and usually concern influences among research variables. With the existence of hypotheses in the study is a strong foundation that shows that researchers have enough knowledge and give direction to the collection and interpretation of data. Based on the above frame of mind, research hypotheses can be formulated as follows:

- H1 There is a direct influence of Safety Risk Management on Aviation Safety Performance at Wamena
- H2 Airport There is a direct influence of Airport Personnel Competency on Aviation Safety Performance at Wamena
- H3 Airport There is a direct influence of Airport Personnel Competency on Safety Risk Management at Wamena
- H4 Airport There is a direct influence of Safety Risk Management and Competence of Airport Personnel on Aviation Safety Performance at Wamena
- H5 Airport There is an indirect influence of Safety Risk Management on Aviation Safety Performance through Competence of Airport Personnel at Wamena Airport

C. Research Methods

The research was conducted at Sentani Airport in 2019 using quantitative methods, with the number of research samples taken as many as 50 personnel directly involved in aviation security operations. Data is collected through instruments in the form of statement sheets with ordinal scale models that have been tested. This research was designed by using descriptive methods with quantitative approach. The analysis tools used are Path Analysis and carried out assumption tests such as validation test, reliability, data normality test, linearity test, Homogeneity Test, and Multicollinierity Test. The Analisys path describes the relationship between exogenous variables i.e. security checks and endogenous variables i.e. satisfaction and loyalty. The effect of security checks on airport security programs, as well as airport security programmes on the performance of aviation security personnel is called direct effect. Meanwhile, from security checks on loyalty through airport security programs called indirect effect.

D. Results and Discussion

Multiple regression analysis aims to determine whether or not two or more free variables (X) affect bound variables (Y).

From the R value obtained by 0.993, this explains the amount of correlation value (relationship) that is very strong / perfect between security checks and airport security programs to the performance of airport security personnel.

From R square value of 0.986 or 98.6%, this explains that the effect of Airport Security Checks and Security Program on Airport Security Personnel Performance is 98.6%. While for the value of e obtained $e = \sqrt{(1-0.986)}$ of 0.12

Model regression equation between X_1 $X_{2 to}$ Y from the calculation results, obtained: (1) Constant Value (a) : 6,794 and (2) Value b_1 : 0.561 and b_2 : 0.361

So the equation $Y = a + b_1 X_1 + b_2 X_2$ obtained is: $Y = 6,794 + 0,561 X_1 + 0,361 X_2$

From the R value obtained by 0.982, this explains the amount of correlation value (relationship) that is very strong / perfect Security Check and Airport Security Program. From R square value of 0.964 or 96.4%, this explains that the influence of Security Check and Airport Security Program is 96.4%.

Meanwhile, to get the value of linear regression equation relationship between X_2 and X_1 used simple linear regression method using IBM *SPSS* Statistic Data Editor program with the results compiled as follows:

From the calculation results as stated in table 4.14 obtained_A calculated value of 1320,879 > F_{table} of 3.19 and variable significance value of 0.000 < 0.05, it can be concluded that there is a variable influence that Security Check (X₁) and Airport Security Program(X₂) simultaneously on The Performance of Aviation Security Personnel (Y).

Path	Path Coefficient	Path Coefficient Value
X ₁ Y	β_{y1}	0,551
X_2Y	β_{y2}	0,446

Table 1. Resume Value of Path Coefficient Between Variables

Correlation matrix and path coefficient between variables as presented in table 1 above can be presented in structural model as in the picture below. From the hypothesized model it can be argued that all significant pathways to Flight Safety Performance details of the results of the calculation of the path coefficient.



Figure 2. Structural Relations between variables

First Hypothesis Test. The first hypothesis states that "Security Checks (X1) directly affect the Performance of Aviation Security Personnel (Y). The result of calculation of path coefficient for the hypothesized cavalry model obtained the coefficient value of the $\beta yX1$ line = 0.551 with Rsqure of 0.986; Tcount = 6,075 and Ttables = 2.012 at α = 0.05. Because Tcount > Ttable then the coefficient of this line is significant, then H0 is rejected. That is, the first hypothesis is proven, that the Security Check variable directly affects the Aviation Security Personnel Performance variable.

Second Hypothesis Test. The second hypothesis states that "The Airport Security Program (X2) directly affects the Performance of Aviation Security Personnel (Y). The result of calculating the path coefficient for the hypothesized cavalry model obtained the coefficient value of the β yX2 line = 0.446 with Rsqure of 0.986; Tcount = 4,921 and Ttables = 2.12 at α = 0.05. Because TCount > Ttable then the coefficient of this line is significant, then H0 is rejected. That is, the second hypothesis is proven, that the variables of the Airport Security Program directly affect the performance variables of aviation security personnel.

Third Hypothesis Test. The third hypothesis states that "Security Checks (X1) have a direct effect on the Airport Security Program (X2). The result of calculation of path coefficient for the hypothesized cavalry model obtained the value of the path coefficient β X2 X1 = 0.893 with Rsqure of 0.964; Tcount = 13,753 and Ttables = 2,002 at α = 0.05. Because Tcount > Ttable then the coefficient of this line is significant, then H0 is rejected. That is, the third hypothesis is proven, that the Security Check variable directly affects the variables of the Airport Security Program.

Fourth Hypothesis Test. The fourth hypothesis states that Security Checks (X1) have an indirect effect on the Performance of Aviation Security Personnel (Y) through the mediation of the Airport Security Program (X2).

Based on the calculation of X1 direct influence on Y is 0.551, while the indirect influence of X1 through X2 on Y is the multiplication of beta X1 against X2 with a Beta X2 value against Y of $0.893 \times 0.446 =$ 0.398 Then the total influence given X1 to Y is a direct influence coupled with indirect influences namely: 0.551 + 0.339 = 0.890. Based on the calculation results, it is known that the value of direct influence is 0.551 and indirect influence is 0.398 which means that the value of indirect influence is greater than the value of direct t influence, this result shows that indirectly X1 through mediation X2 has a significant influence on Y. That is, the fourth hypothesis is proven, that the variable Security Check has an indirect effect on the Performance of Aviation Security Personnel (Y) through the mediation of the Airport Security Program (X2).

Based on the research data analyzed, empirically proves that Security Checks have an indirect effect on the Performance of Aviation Security Personnel Through Mediation. The first hypothesis indicates that security checks conducted by aviation security personnel of Sentani Airport determine the Performance of Aviation Security Personnel at Sentani Airport. According to (Güreş et al., 2017). Security Screening is the application of a technique or other means to identify or detect weapons, explosives and / or other dangerous tools, and dangerous goods that can be used to carry out illegal actions. If the flight security checks carried out by Sentani Airport flight security personnel are carried out properly, the risk of illegal action can be reduced.

The second hypothesis shows that aviation security personnel have carried out security inspection procedures in accordance with the procedures written in the airport security program document. According to (Gillen & Morrison, 2015) the airport security program contains procedures and security measures as well as requirements that must be carried out by Airport Operators

and Airport Business Entities to comply with conditions related to flight operations.

The third hypothesis proves that there is a direct and significant influence between the Security Check and Airport Security Program at Sentani Airport. The basic principle for security checks is no search no fly where every passenger who is going to manage an aircraft must go through a flight security check without exception. implementing an aviation safety system is the safety culture of every aviation personnel or organization working in that system. This result is in accordance with the research conducted by (Yuliana, 2012) stated where the inspection carried out has a direct and significant effect on the airport security program.

Lastly, in the fourth hypothesis in line with the three findings of the above results, the results of this study empiricly also prove that Security Checks indirectly affect the Performance of Aviation Security Personnel at Sentani Airport through mediation of airport security programs. This indicates that a well-executed Security Check by all levels of aviation security personnel at Sentani Airport can improve the competence of aviation personnel in terms of improving the security culture that has implications for the performance of aviation security personnel at Sentani Airport. Aviation security is the responsibility of all stakeholders in the field of aviation, the urge to comply with and follow the standards of security level must be started from the highest level of management in each organization. Security management can be considered as a management process that must be carried out at a level that is simultaneously sarna and with the management of other processes at the highest leadership level., it is in line and can be proven by the results of this research.

E. Conclusion

There is a significant direct influence of security checks on the performance of airport security personnel services. This understands that if there is an increase in security checks it will result in an increase in the performance of airport security personnel services so that the risk of aviation security disruptions and unlawful actions can be prevented.

There is a significant direct influence of airport security programs on the performance of airport security personnel services. This contains the understanding that the implementation of procedures in the Airport security program will result in an improvement in the performance of airport security personnel services that have an impact on aviation security and safety.

There is a significant direct influence of security checks on airport security programs. This understands that security checks refer to the guidelines of procedures in airport security programs where checks are carried out that will have an impact on aviation safety and security.

The results of this study also found that there is a significant indirect influence between security checks on the performance of airport security personnel services employees who go through airport security programs. This understands that in the event of a significant security check it will have an impact on the performance of aviation security personnel services, which through airport security programs so that unlawful actions can be prevented that impact on aviation safety and security.

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